BOOK ONE

MODERN ARITHMETIC THROUGH DISCOVERY

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BOOK ONE

MODERN ARITHMETIC THROUGH DISCOVERY

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This book is for the pupil. The complete program for Grade One includes a separate book for the teacher. The Teacher's Edition contains every page of the pupil's book, in full color, plus teaching suggestions.

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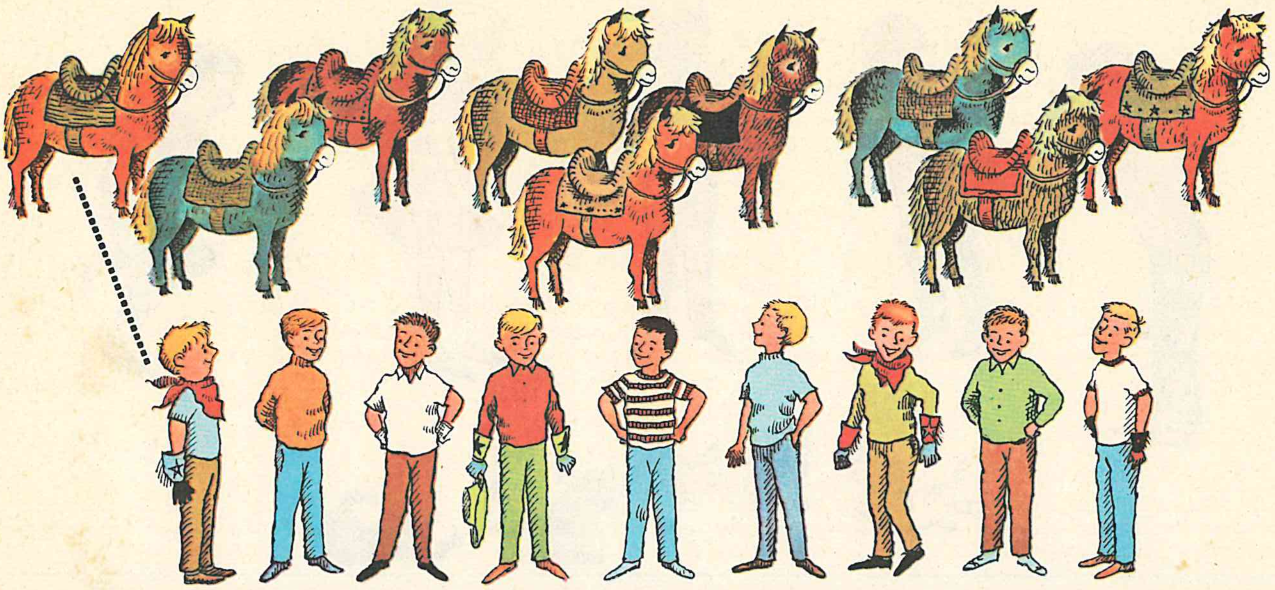

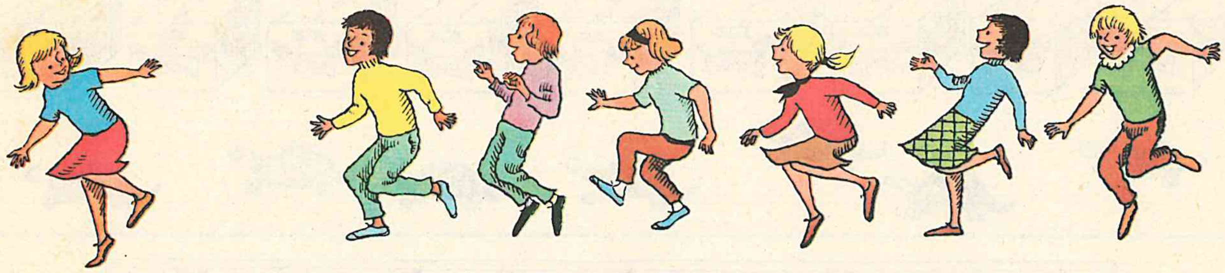

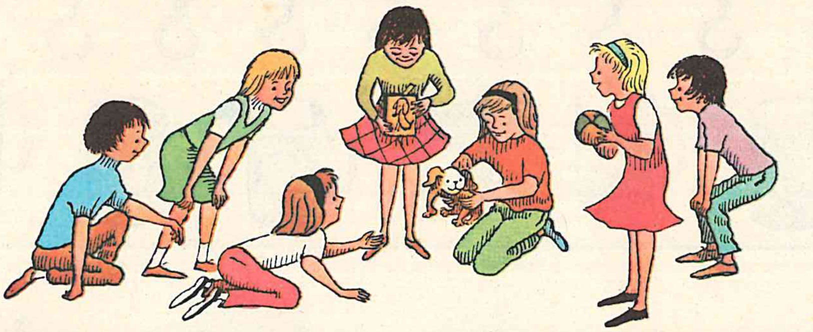

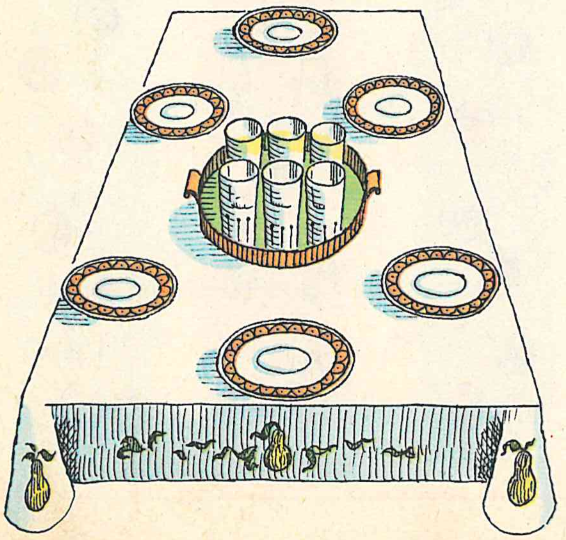

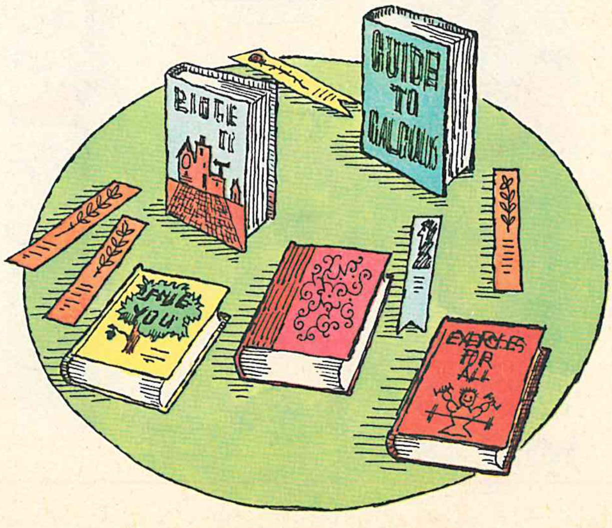
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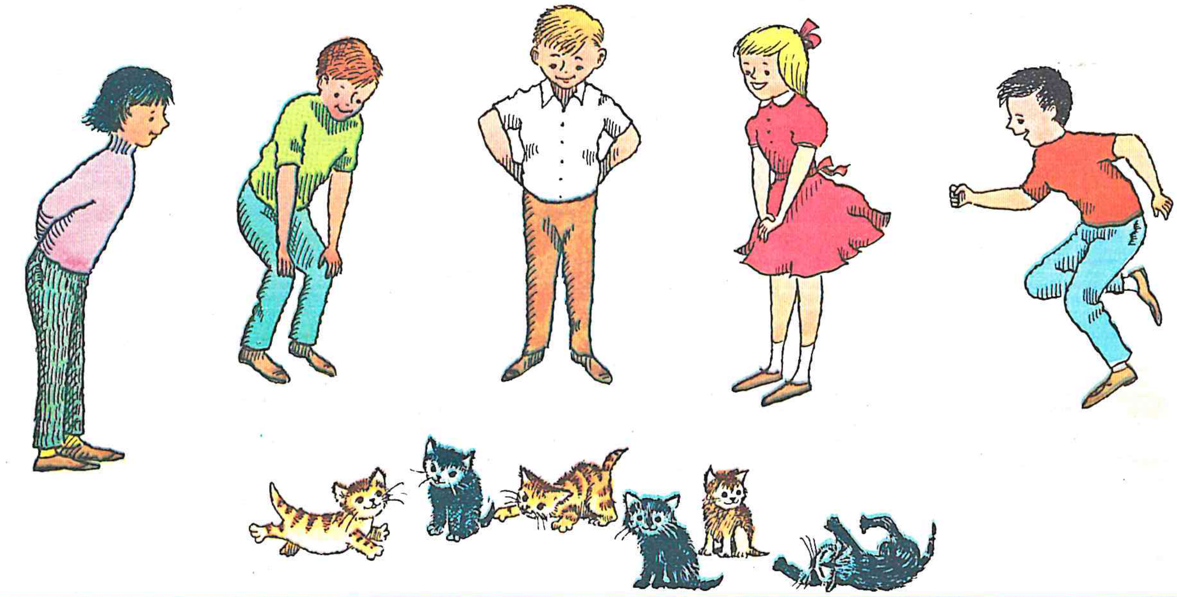

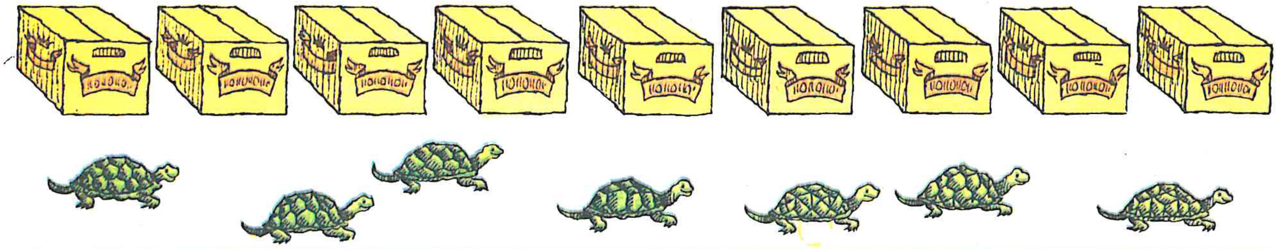

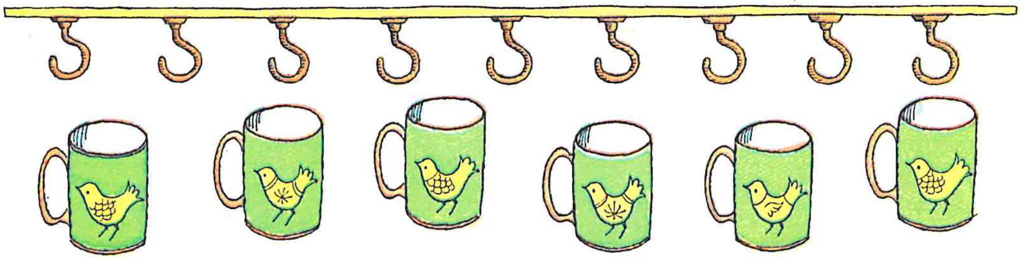

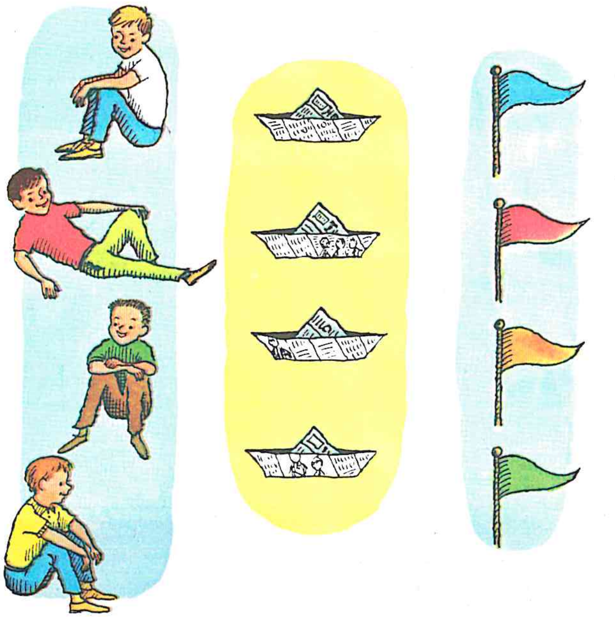

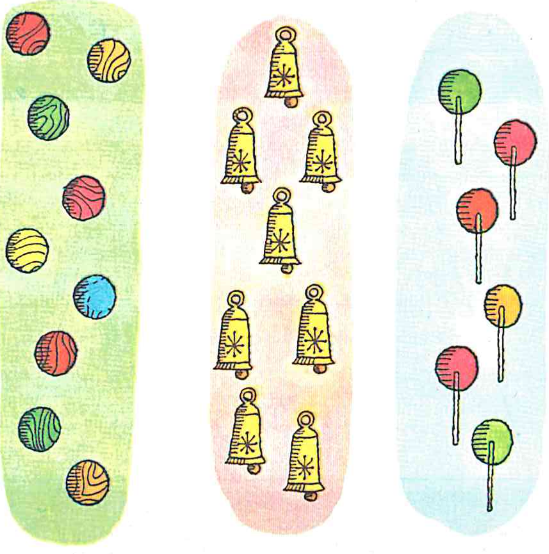

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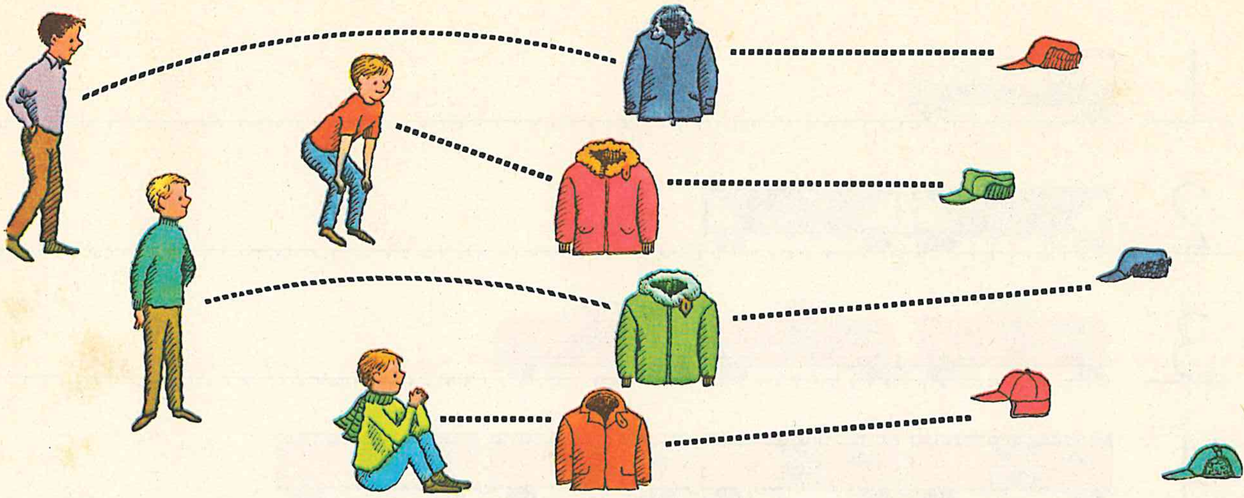

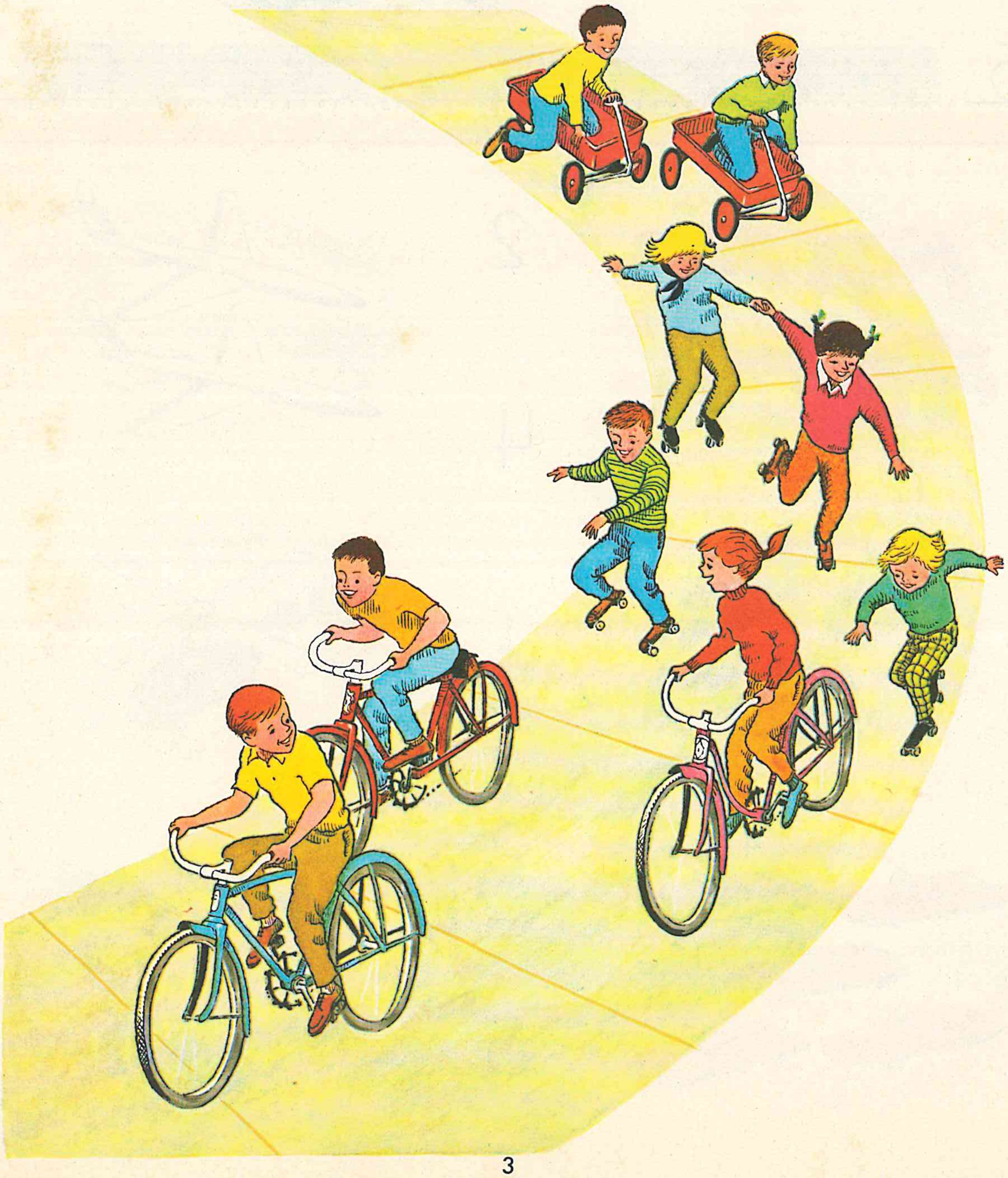

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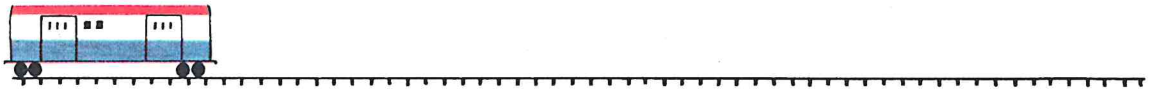

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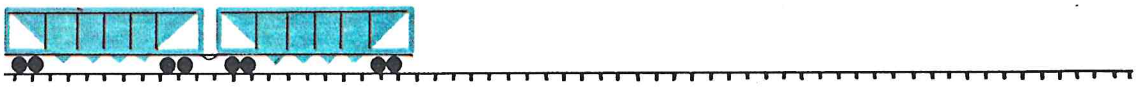

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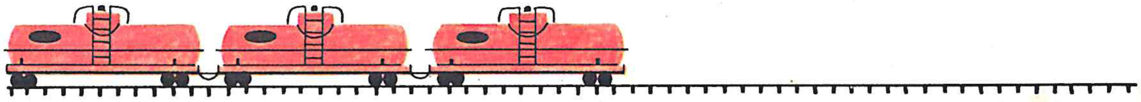

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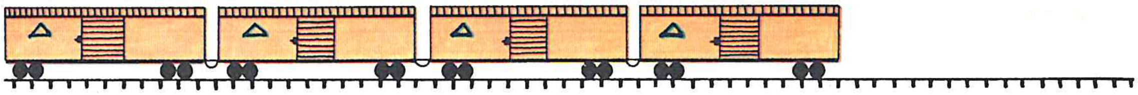

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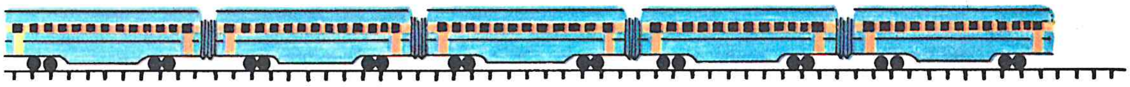

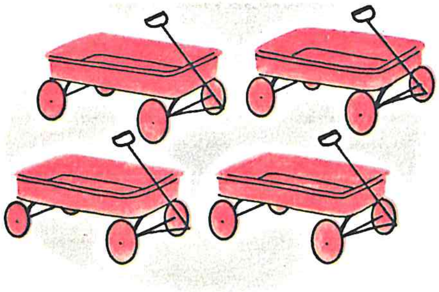

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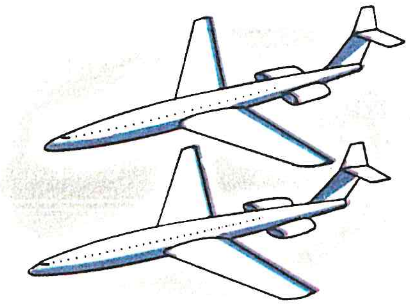

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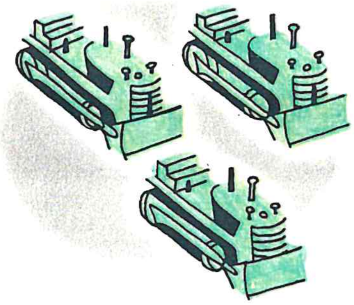

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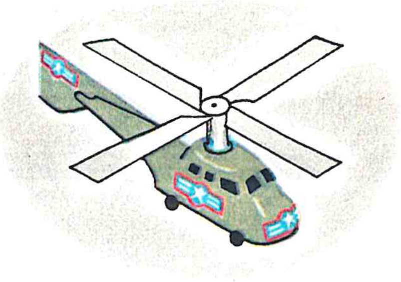

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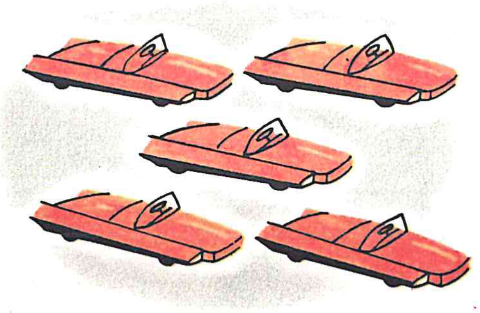

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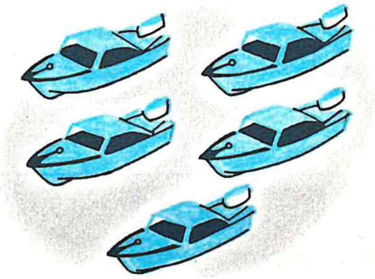

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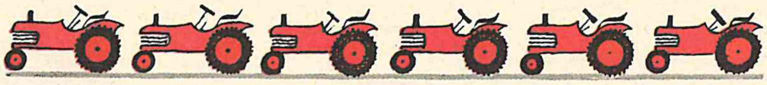

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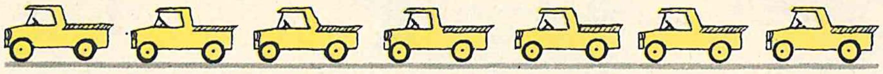

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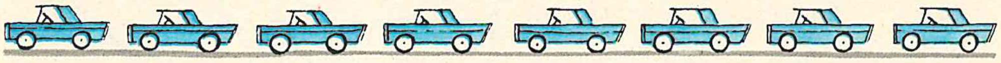

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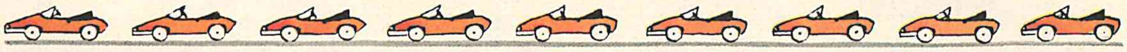

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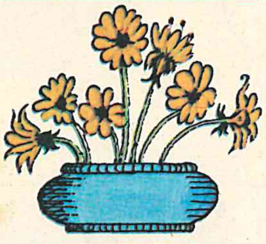

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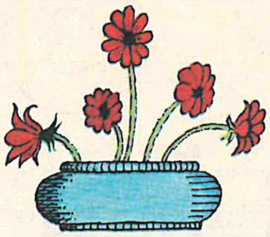

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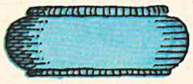

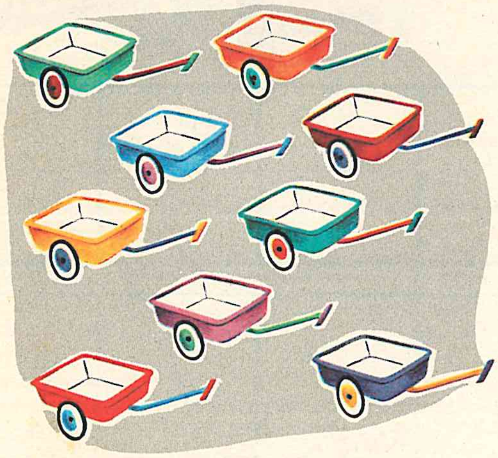

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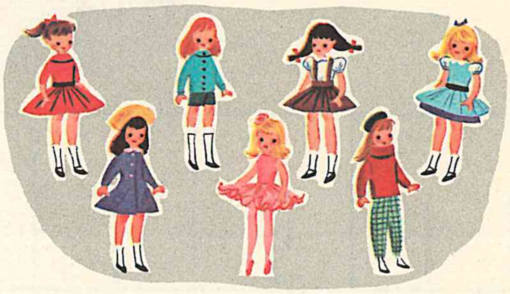

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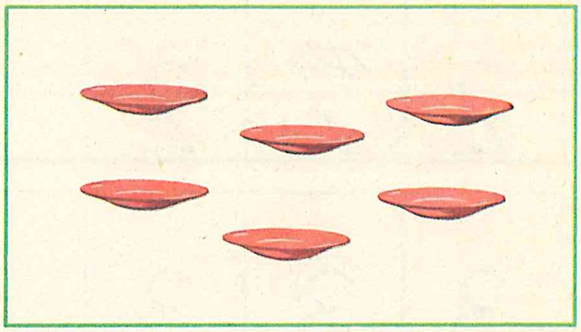

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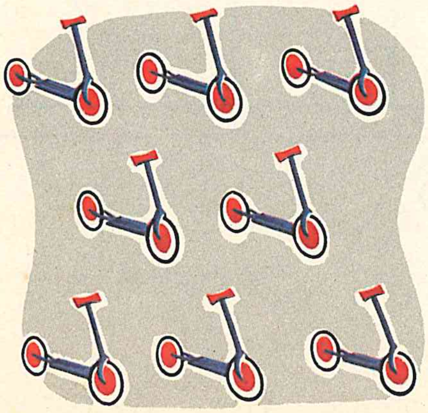

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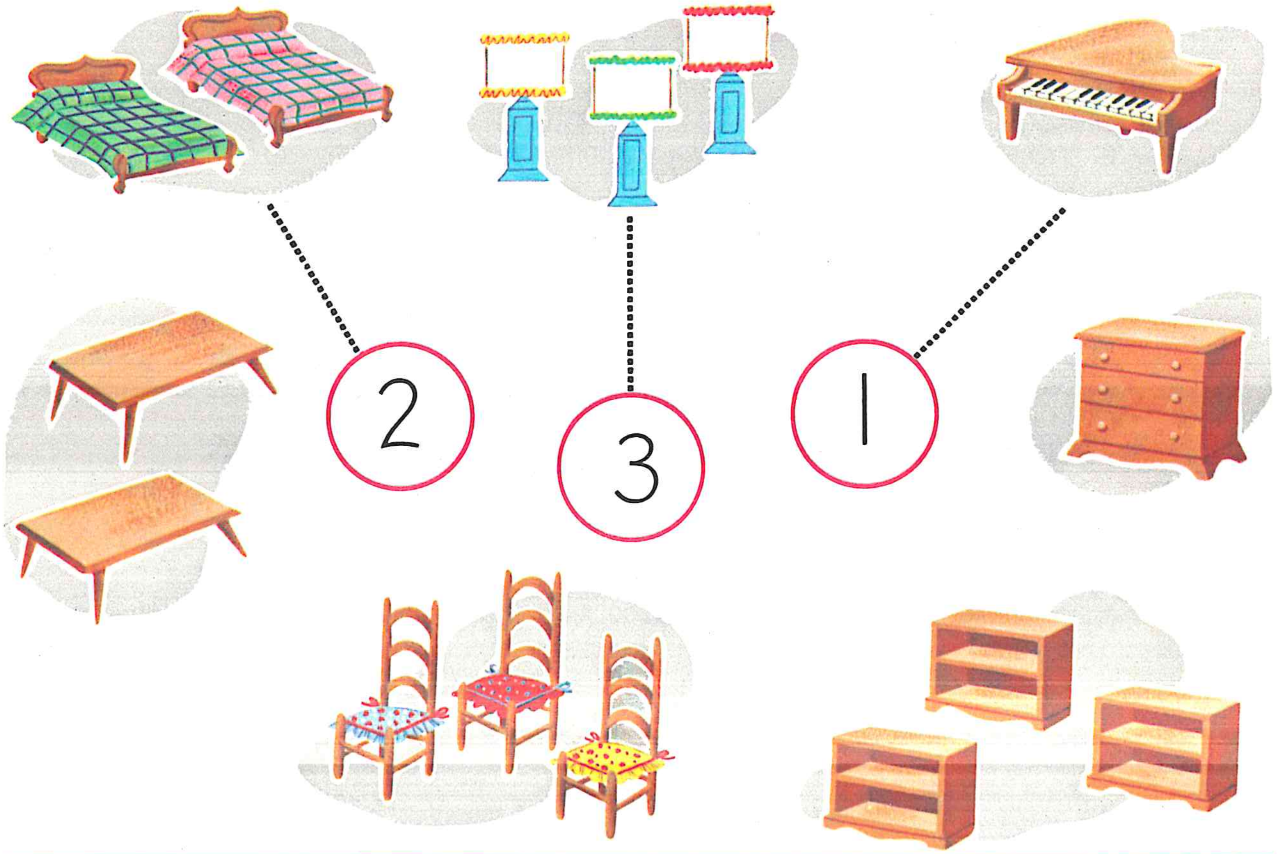

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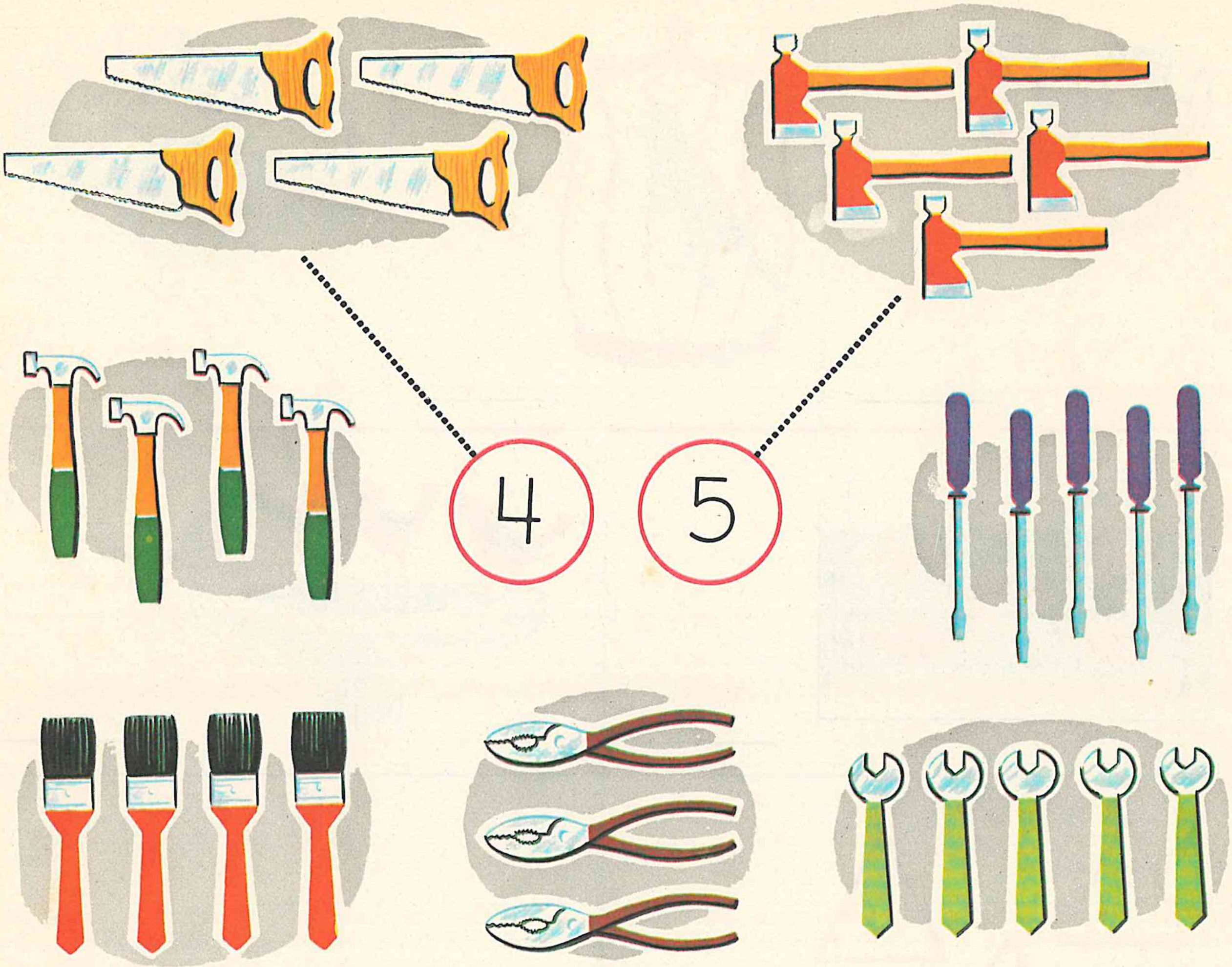

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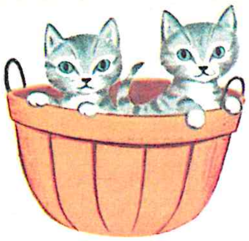

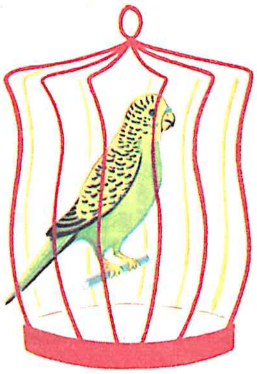

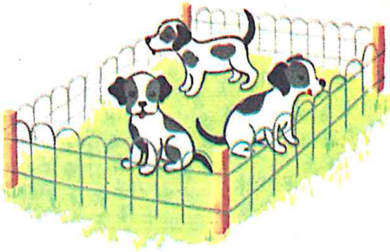

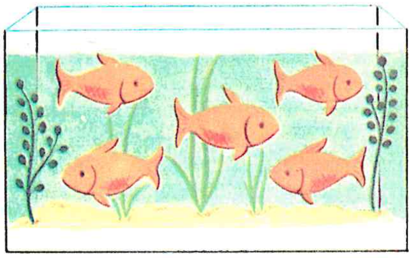

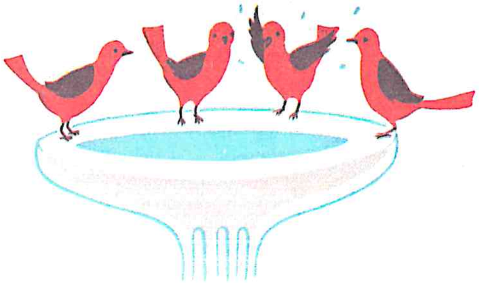

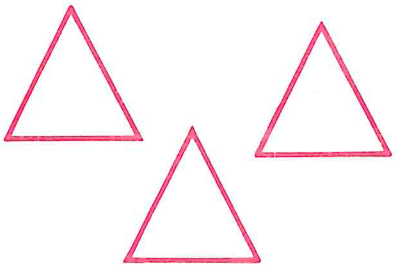

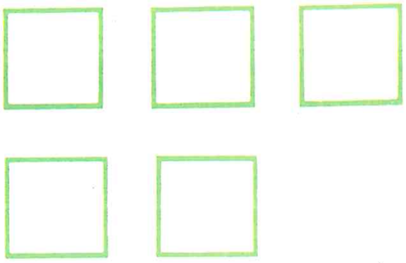

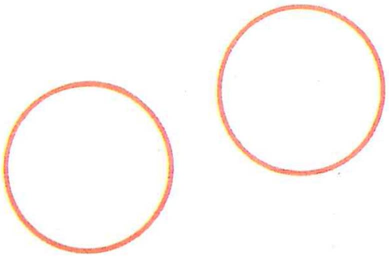

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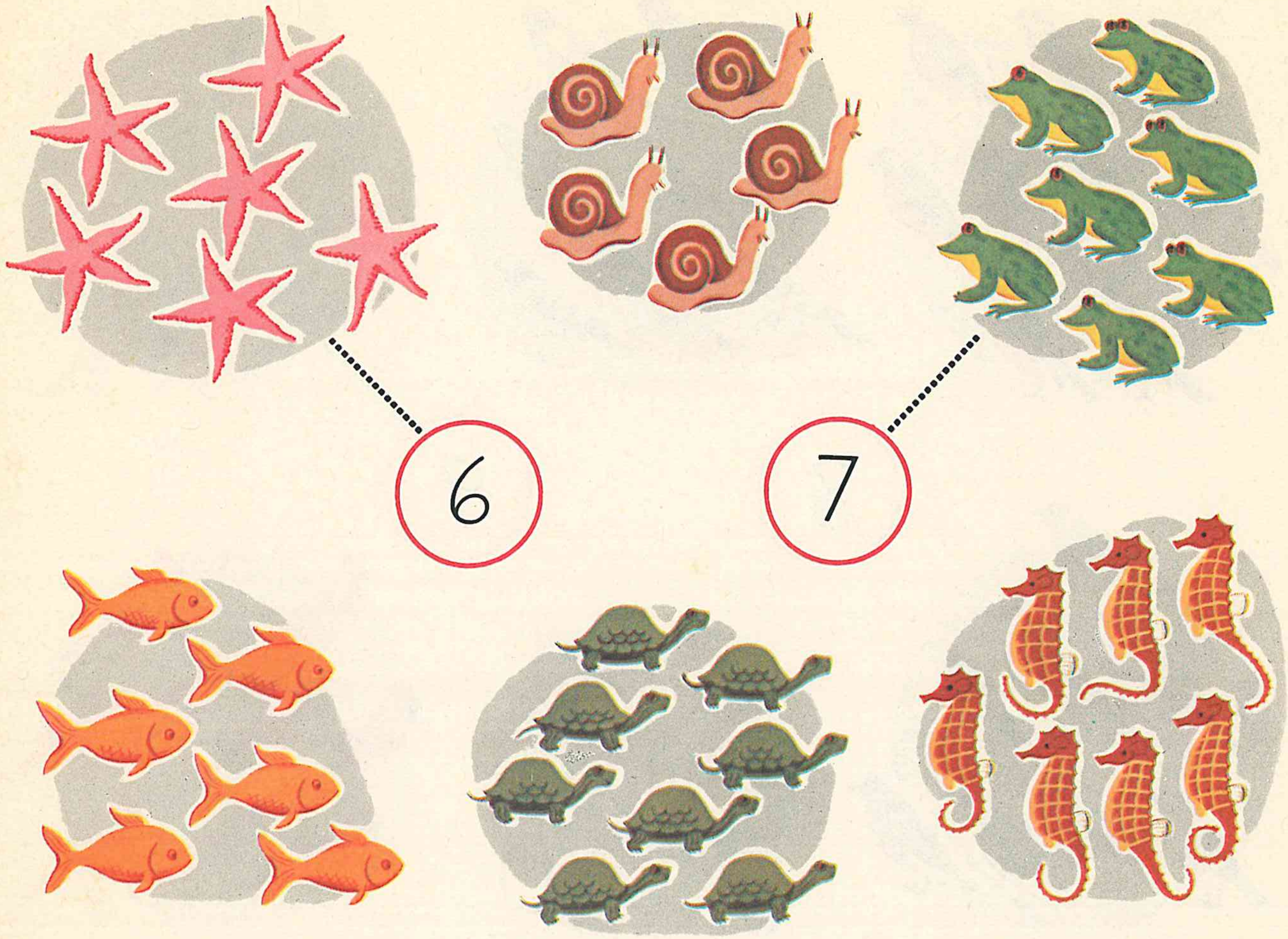

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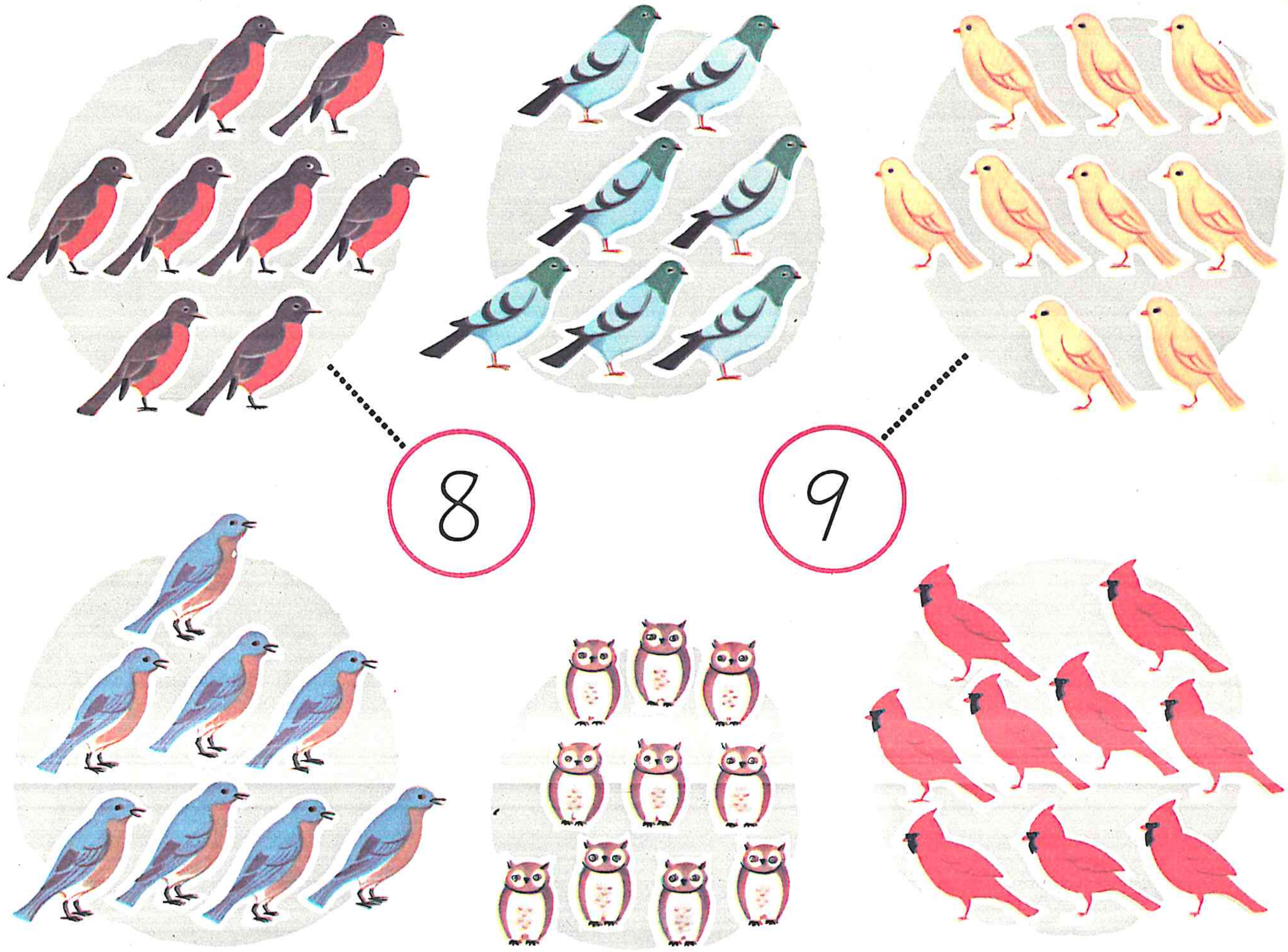

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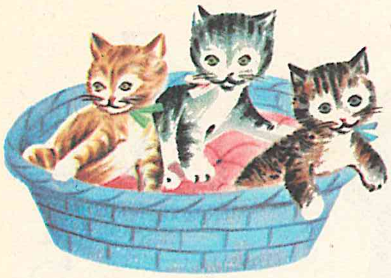

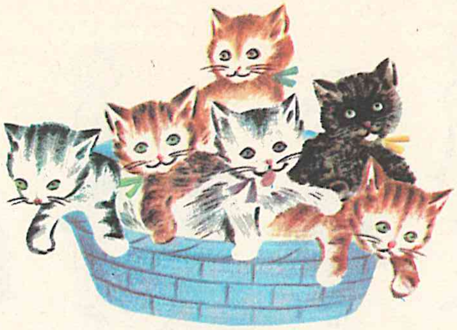

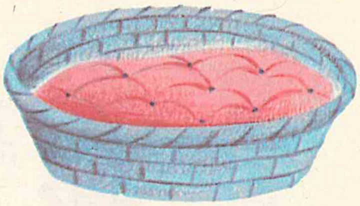

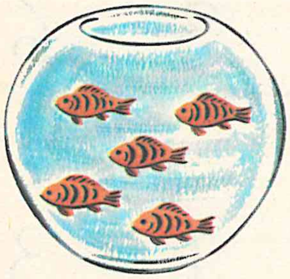

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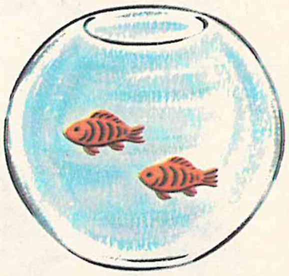

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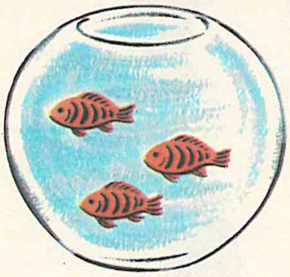

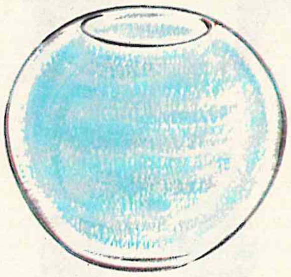

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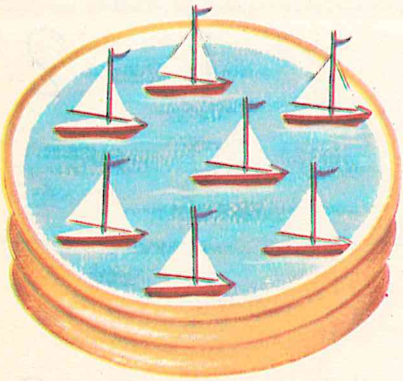

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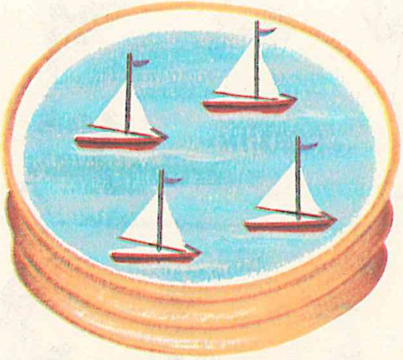

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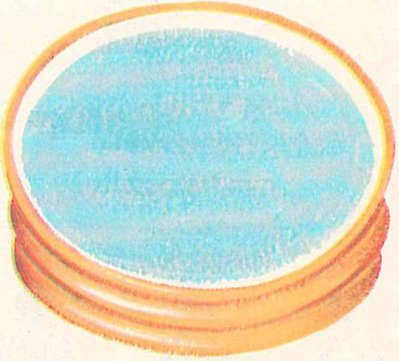

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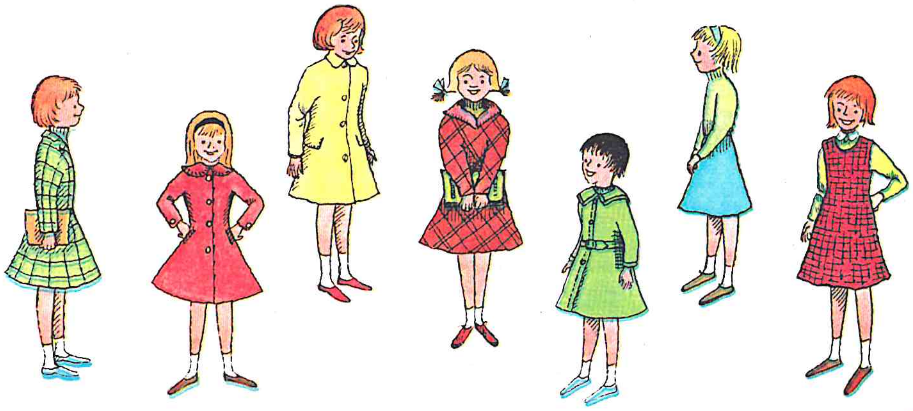

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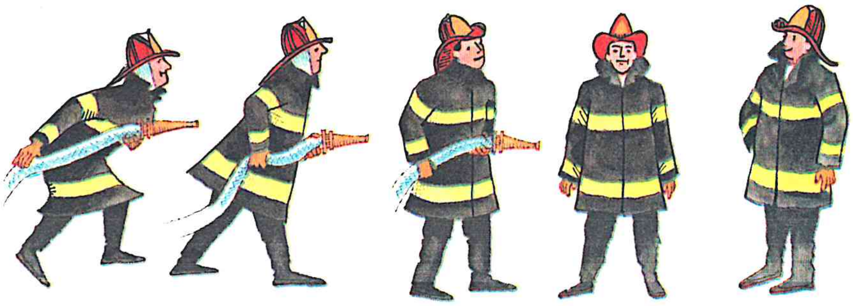

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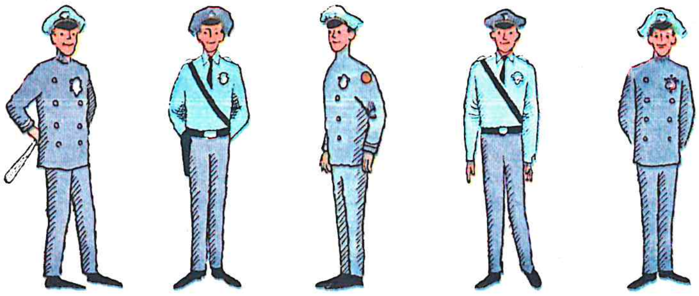

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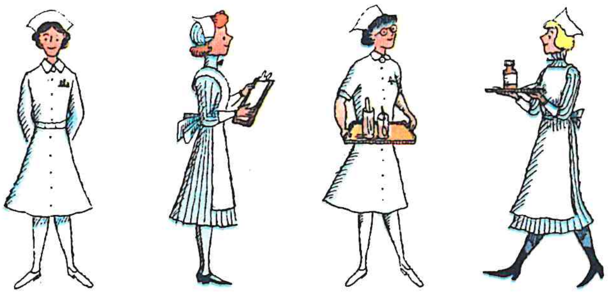

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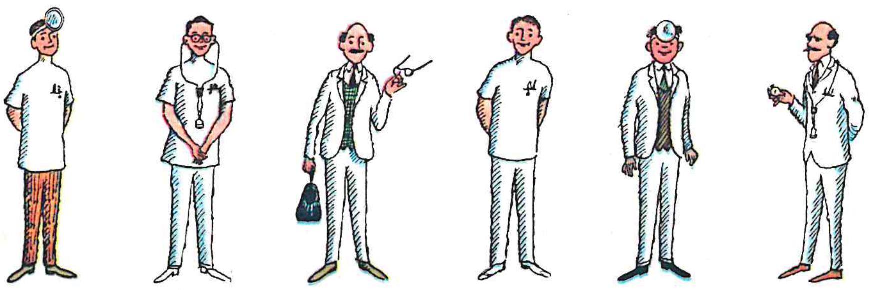

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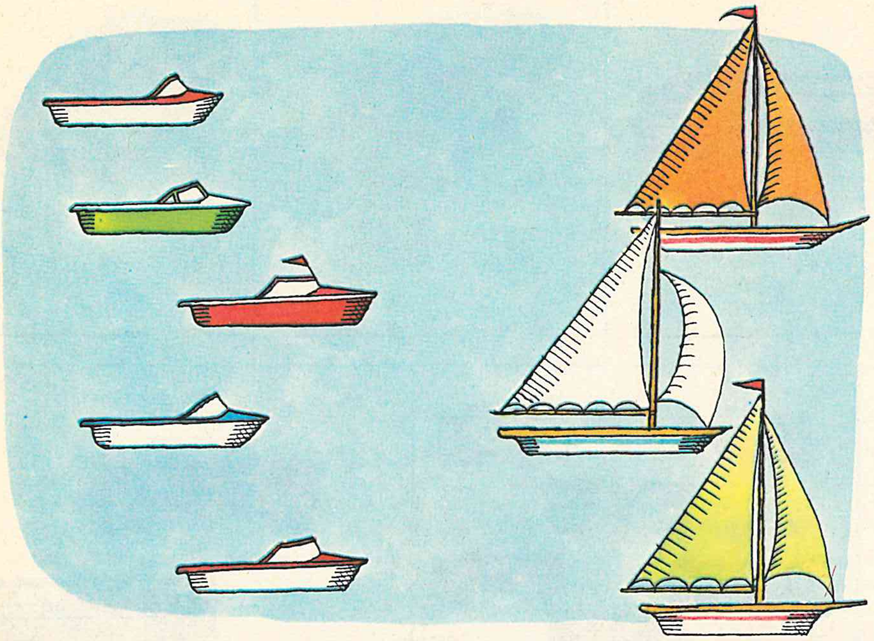

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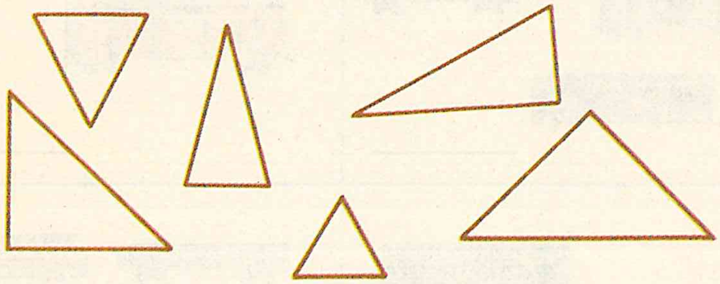

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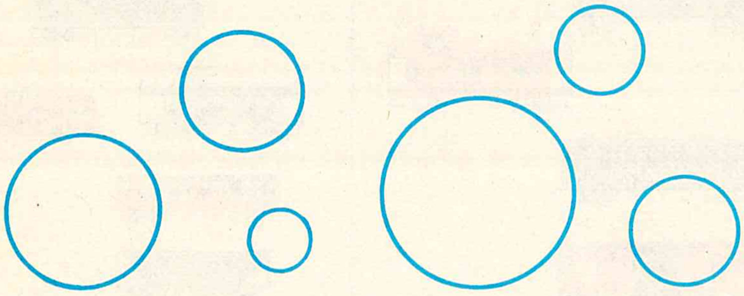

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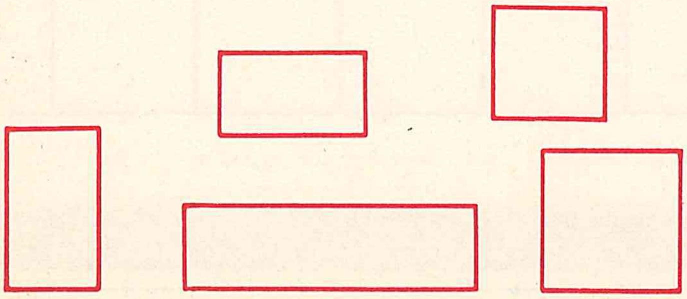

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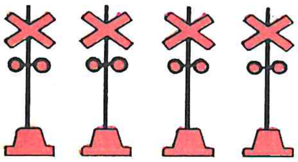

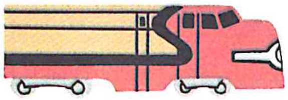

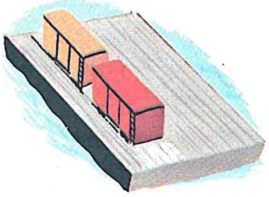

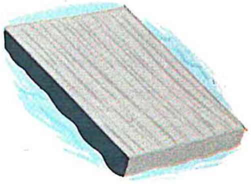

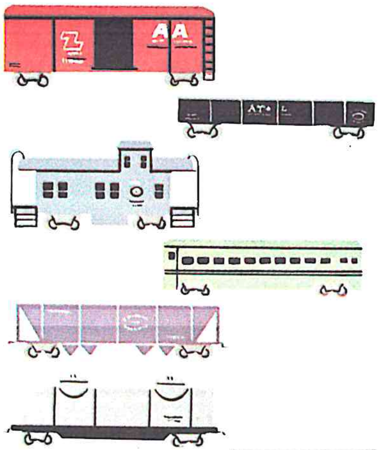

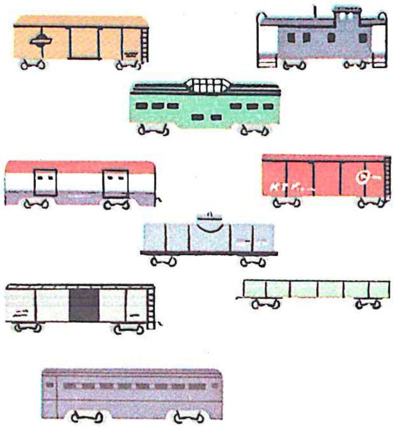

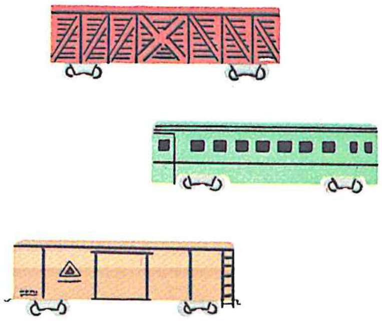

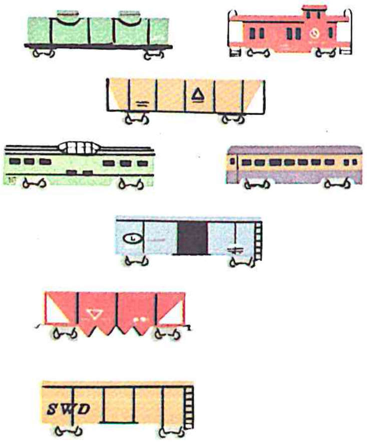

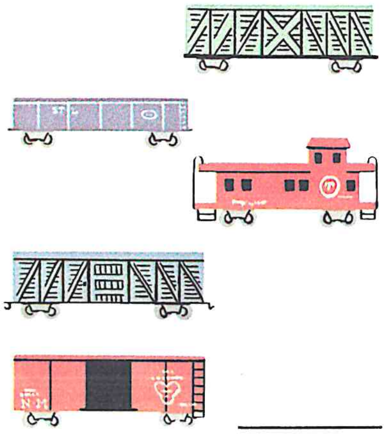

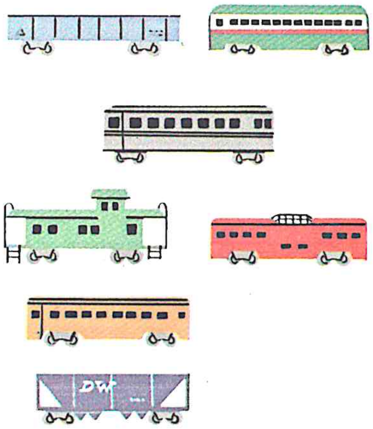

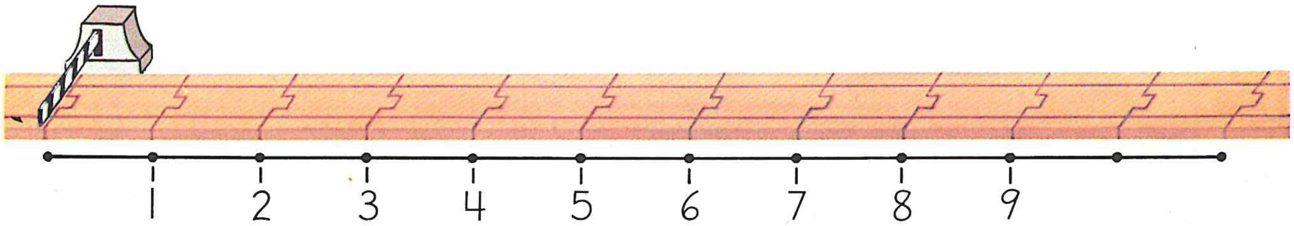

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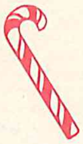
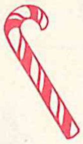
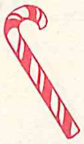
1									
2									
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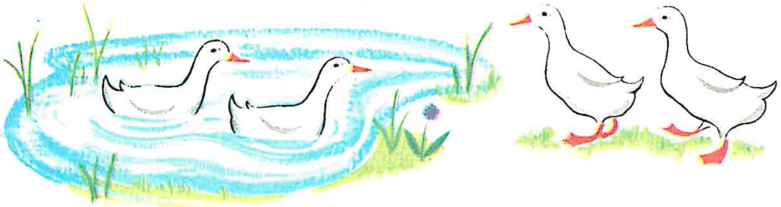

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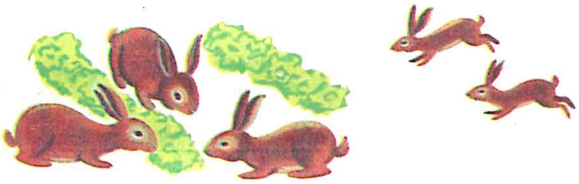
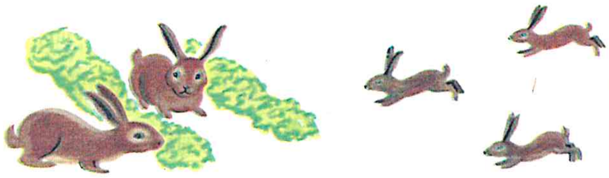


3 and 2 is ____

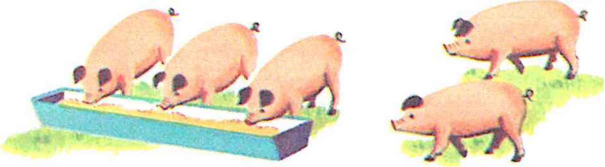


2 and 3 is ____

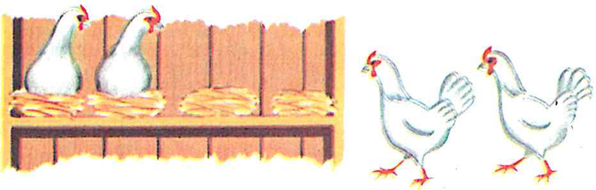
3 and 2 is ____

2 and 3 is ____

2 and 2 is ____



____ and ____ is ____



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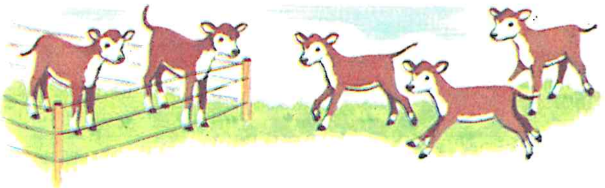

____ and ____ is ____

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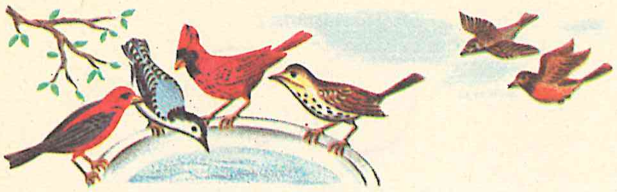

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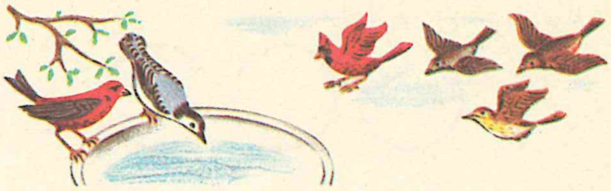
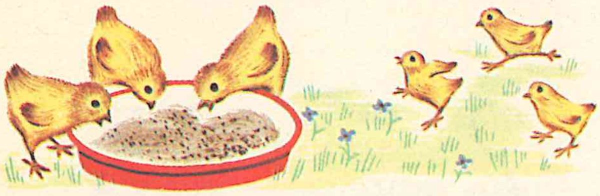


2 and 4 is ____

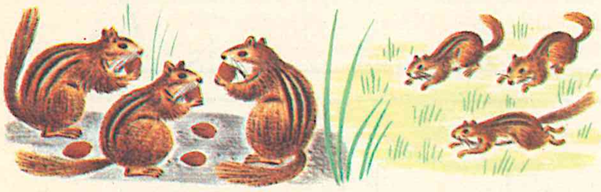


3 and 3 is ____

3 and 3 is ____

4 and 2 is ____

2 and 4 is ____



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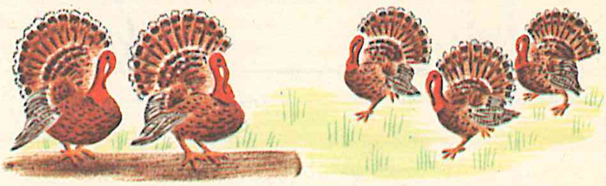

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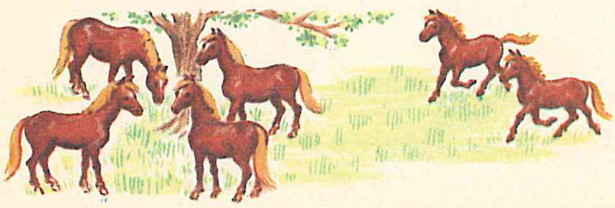

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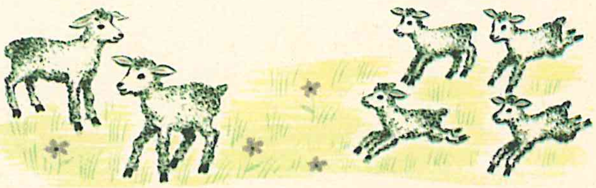

____ and ____ is ____

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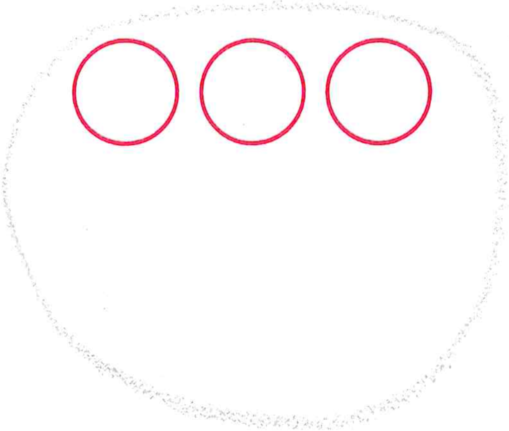
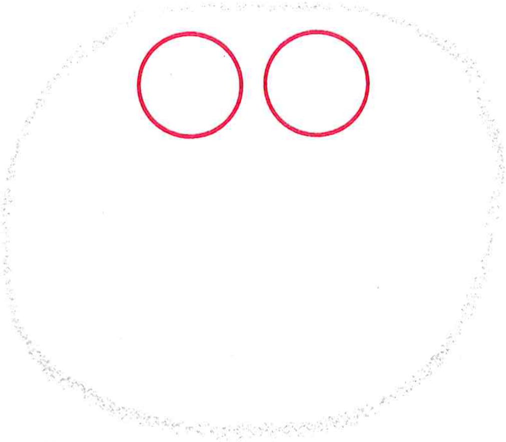
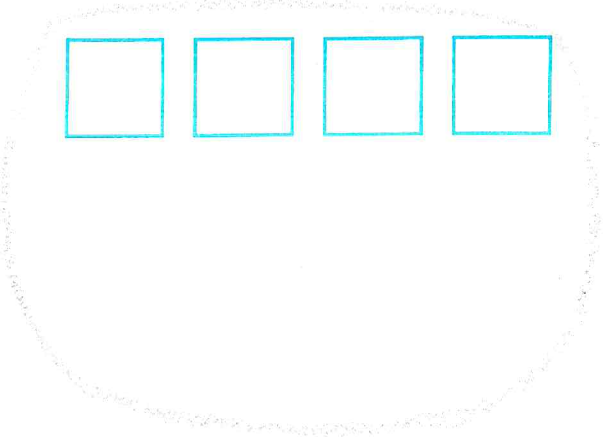


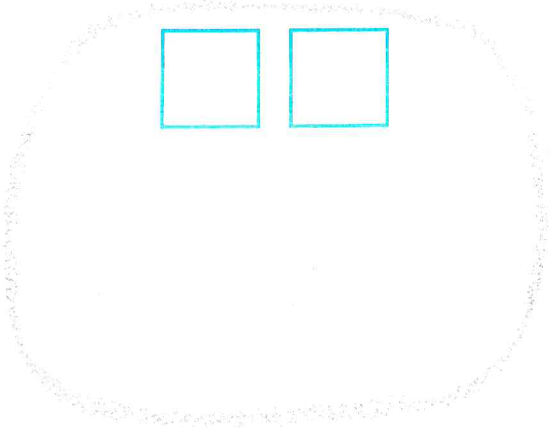
3 and ___ is 5



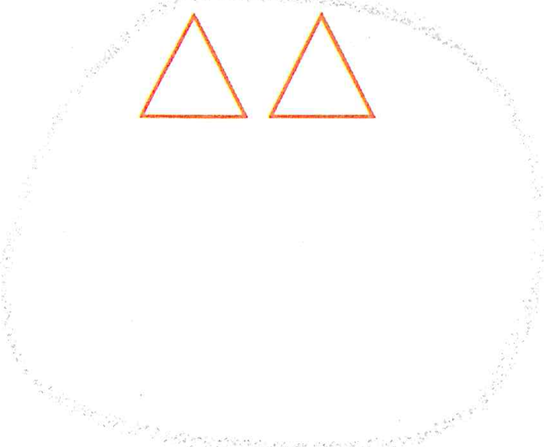
2 and ___ is 5



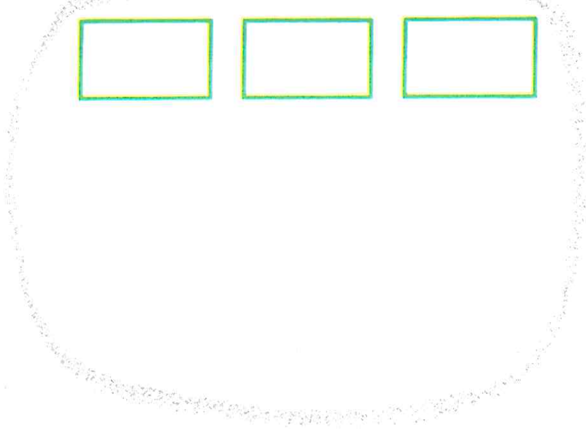
4 and ___ is 6



2 and ___ is 6

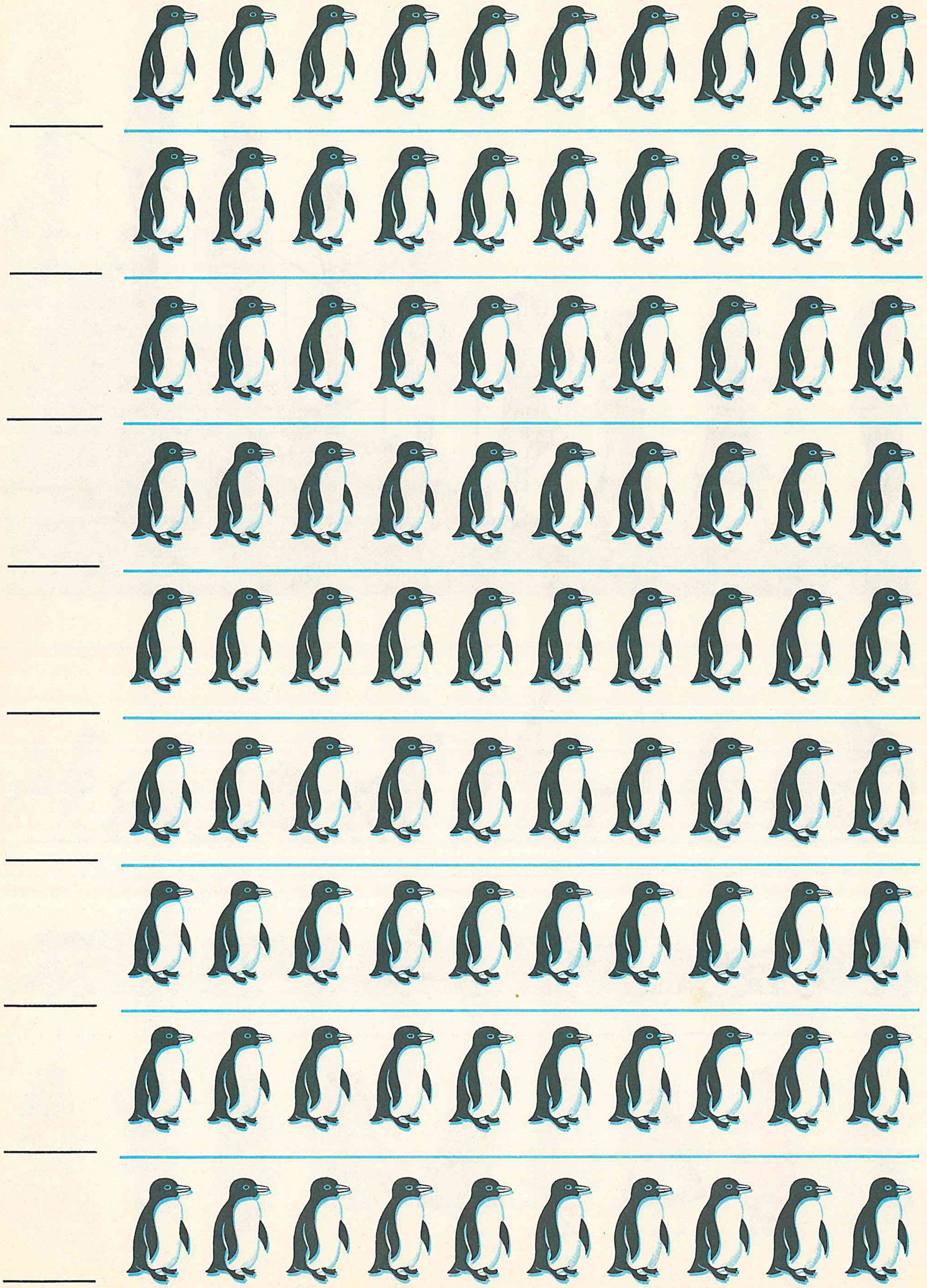


2 and ___ is 4



3 and ___ is 6

NAME ____



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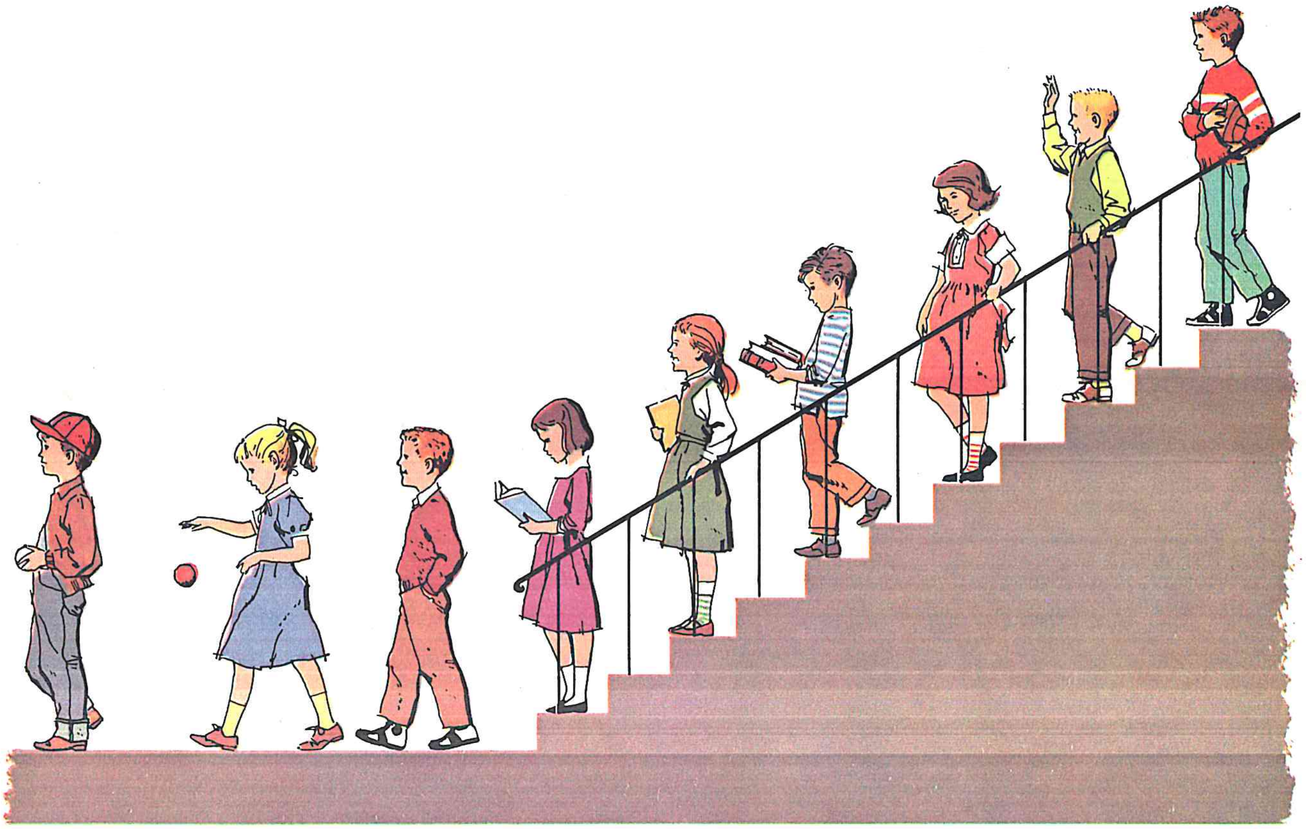

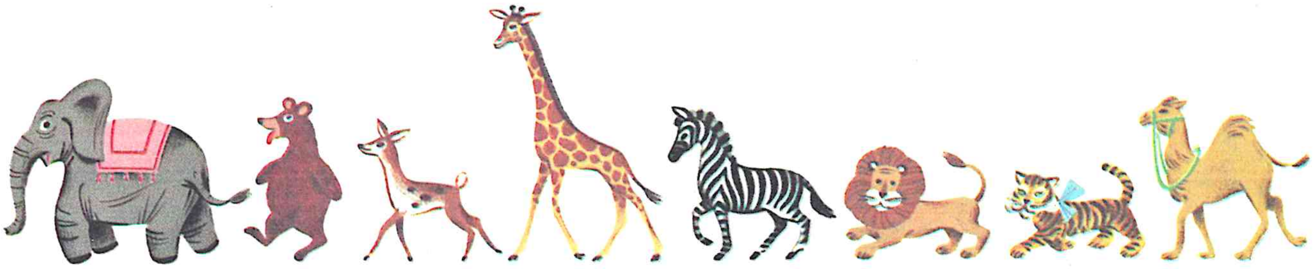

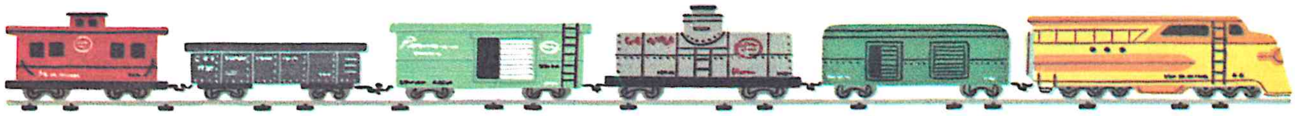

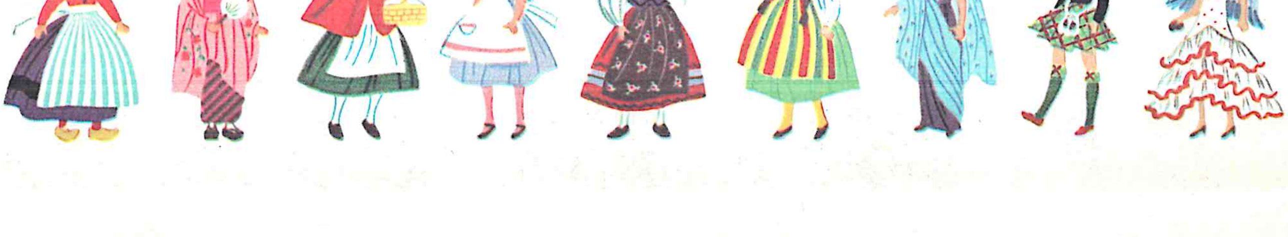

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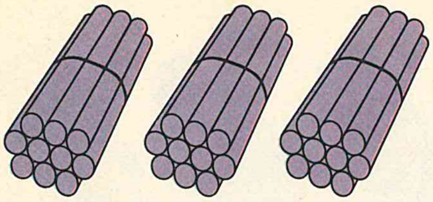

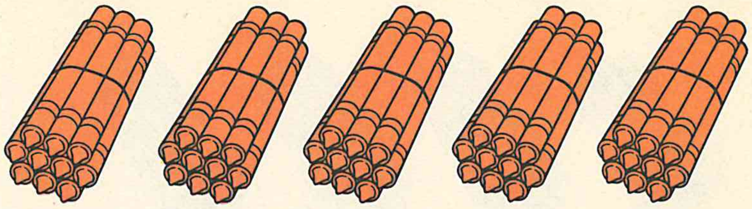

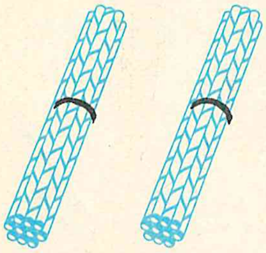

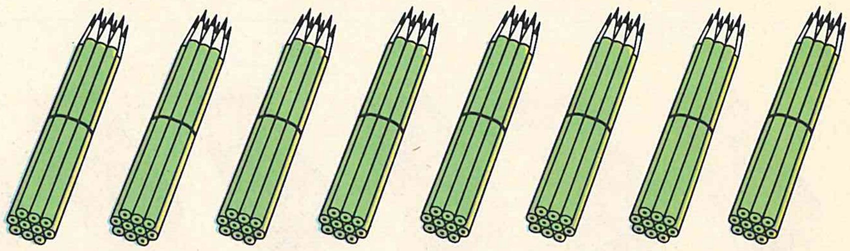

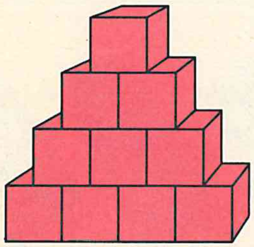

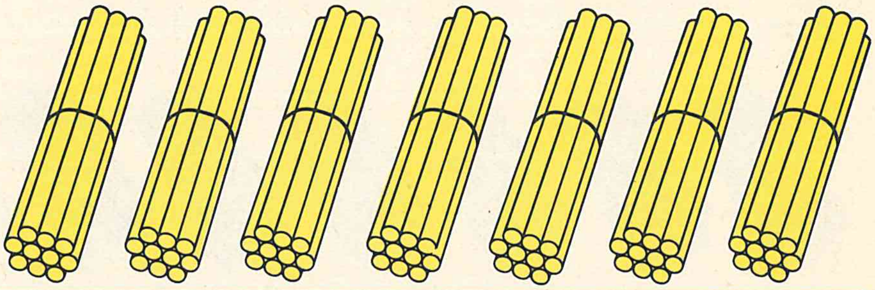

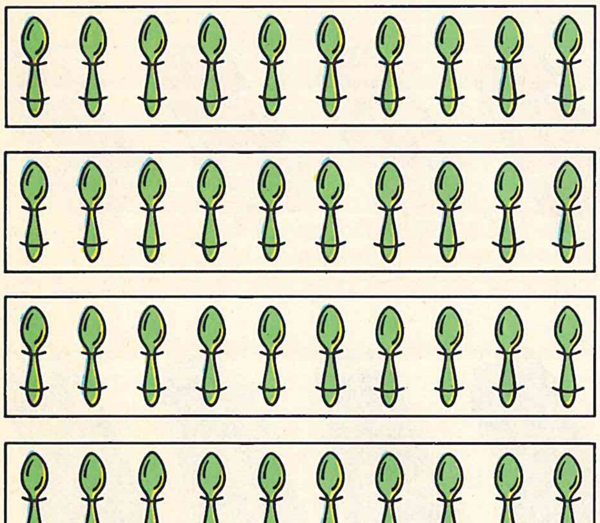

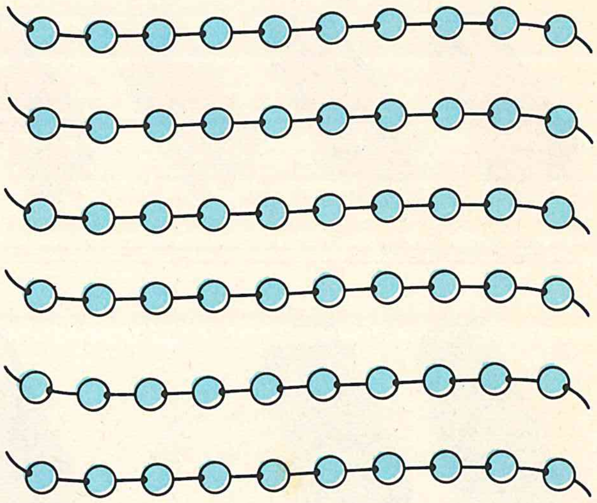

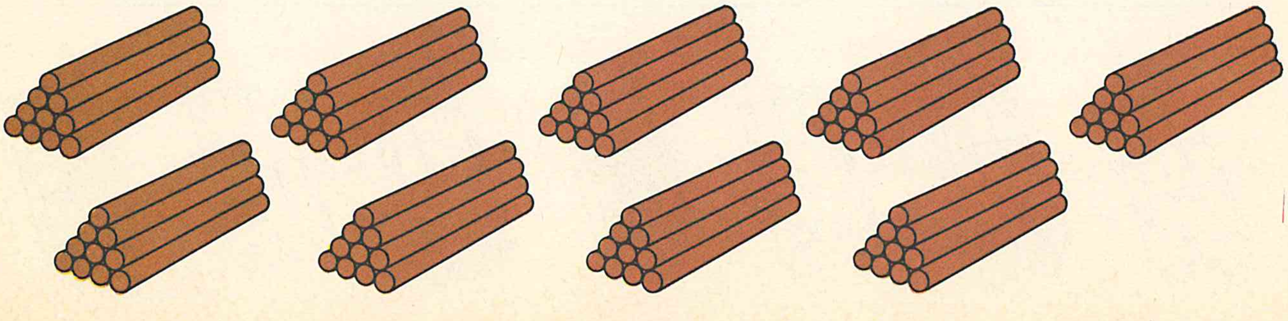

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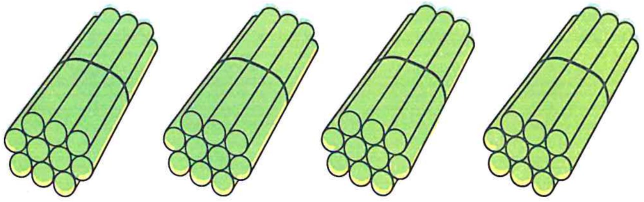

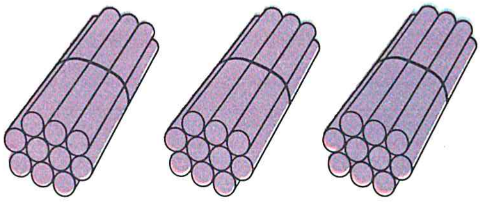

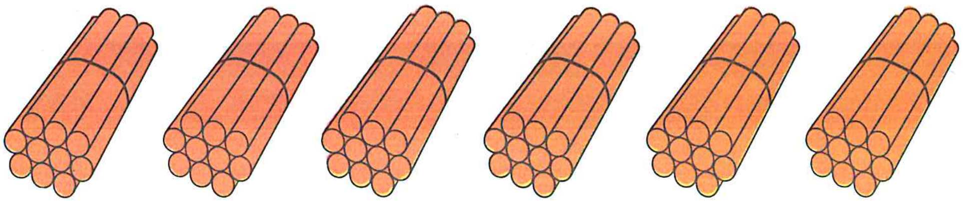

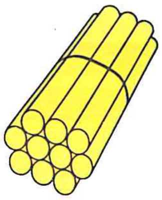

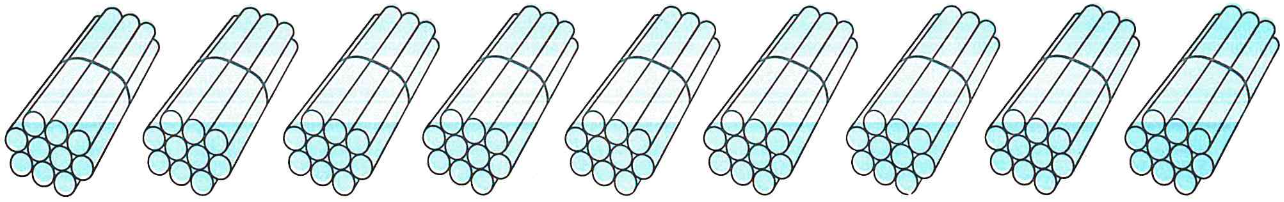

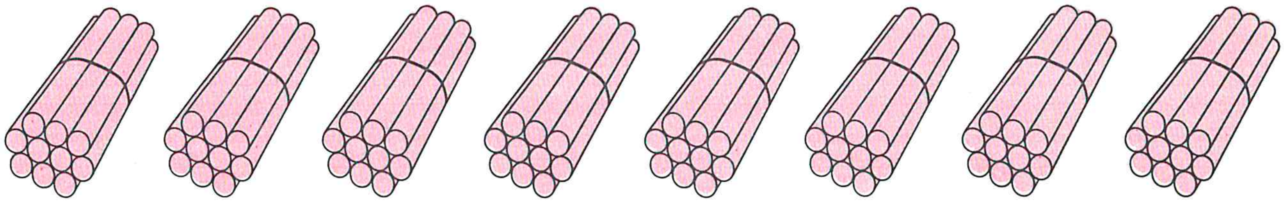

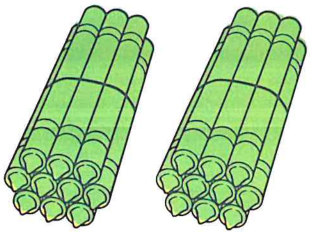

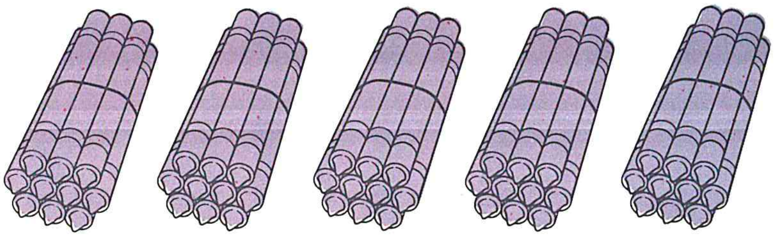

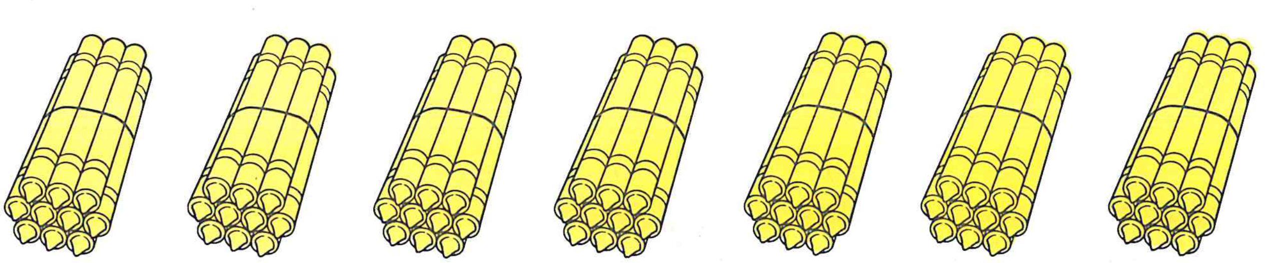

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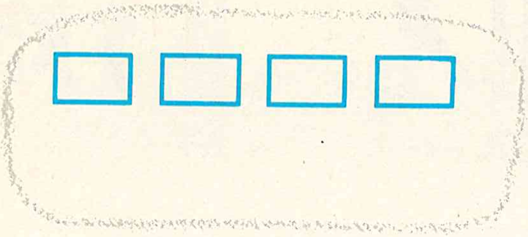
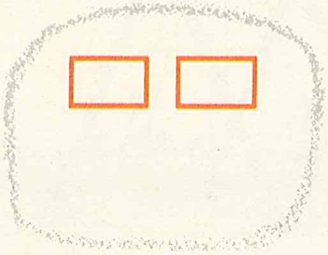


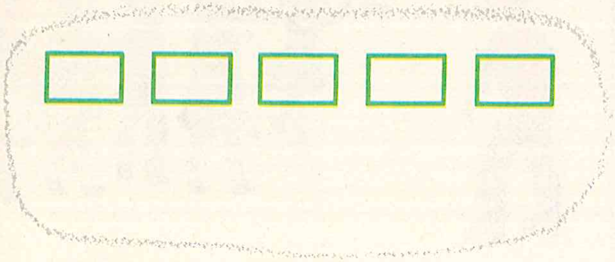
4 and 1 is ____

1 and 4 is ____



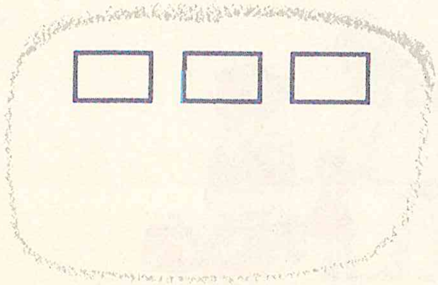
2 and 1 is ____

1 and 2 is ____



5 and 1 is ____

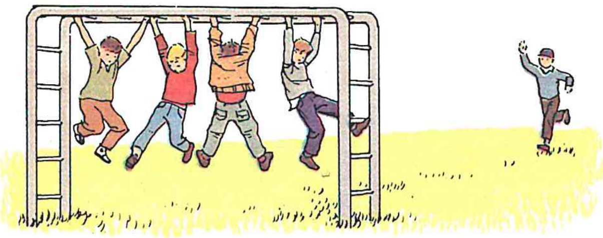
1 and 5 is ____



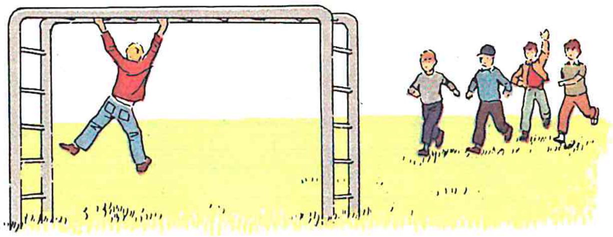
3 and 1 is ____

1 and 3 is ____

NAME ______________________________



____ and ____ is ____



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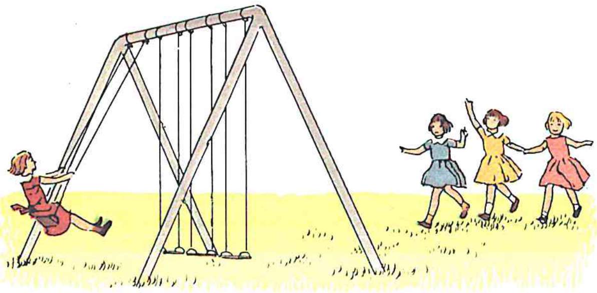
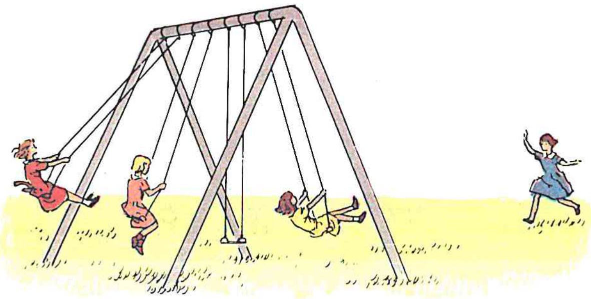
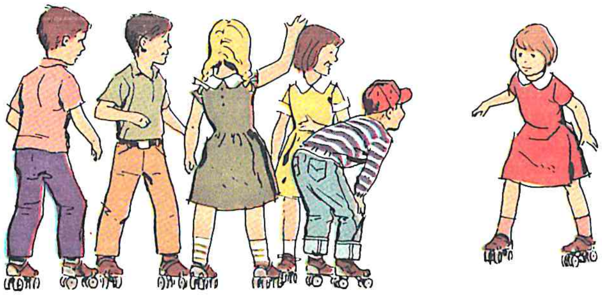


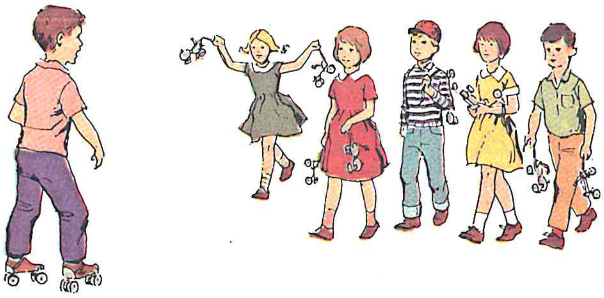
____ and ____ is ____



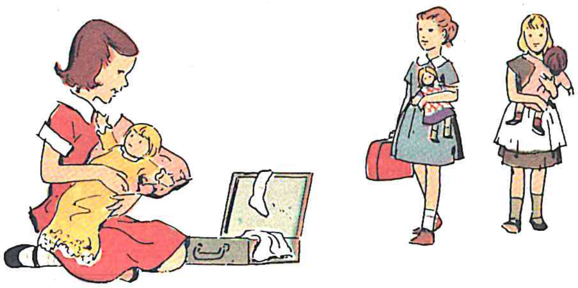
____ and ____ is ____



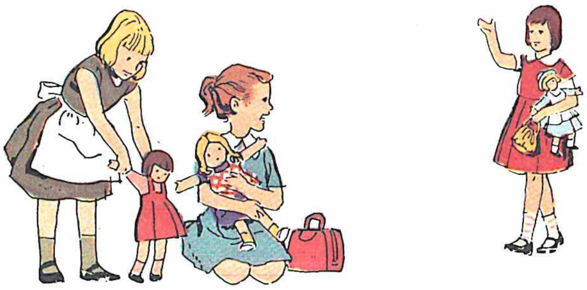
____ and ____ is ____



____ and ____ is ____

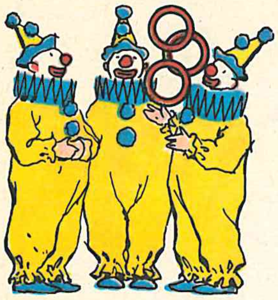
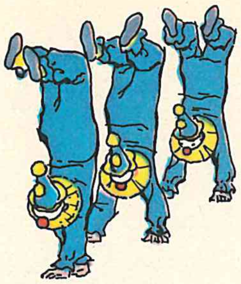


____ and ____ is ____

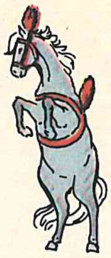
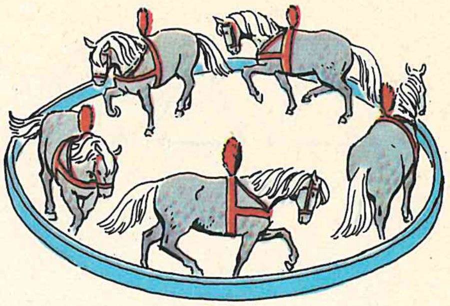


____ and ____ is ____

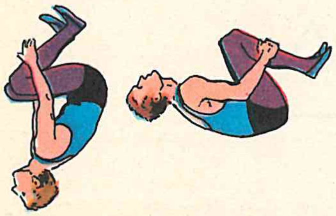
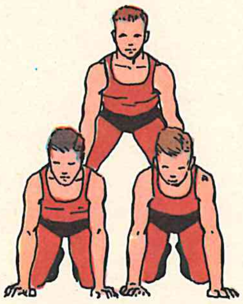
NAME ______________________________

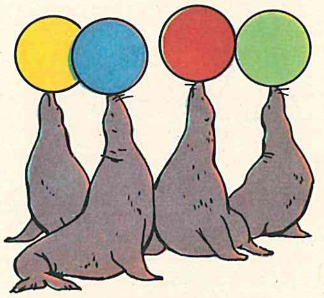
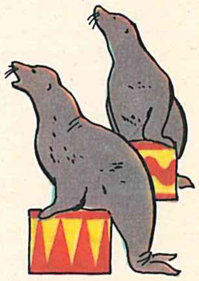
____ and ____ is ____

____ and ____ is ____

____ and ____ is ____

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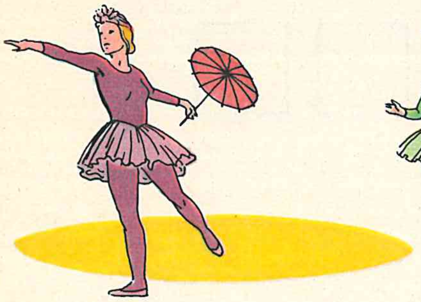
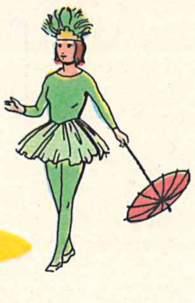

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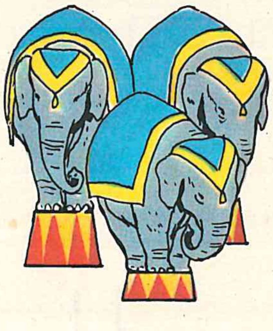
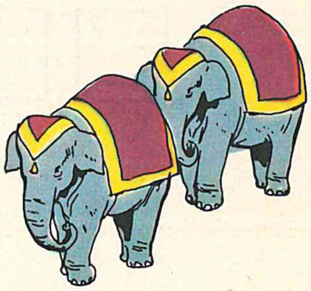

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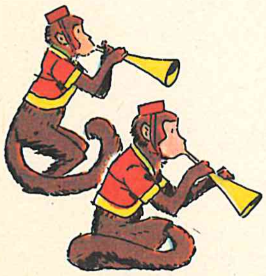
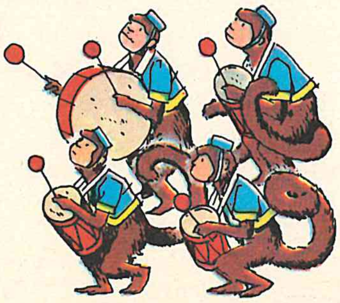

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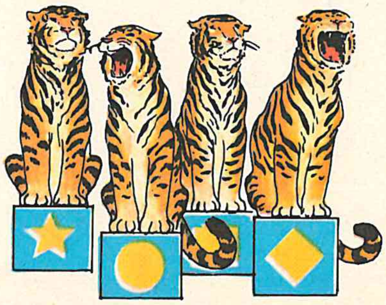
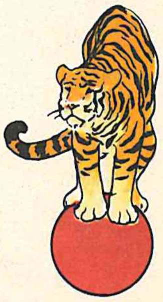

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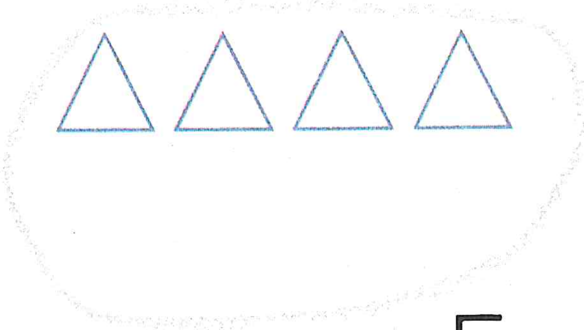

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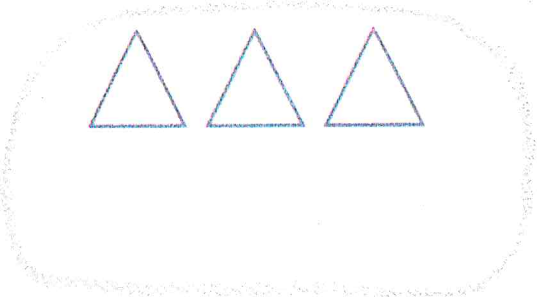

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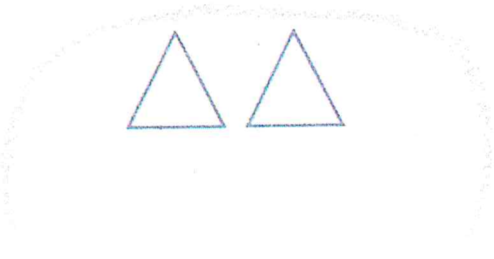

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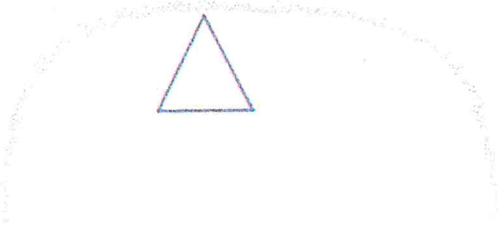

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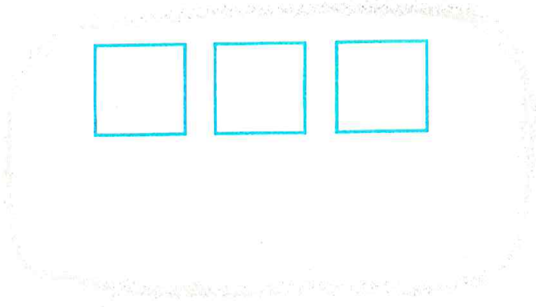

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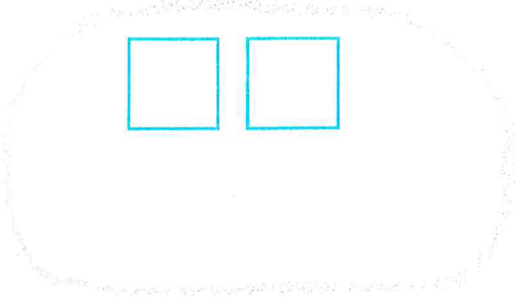

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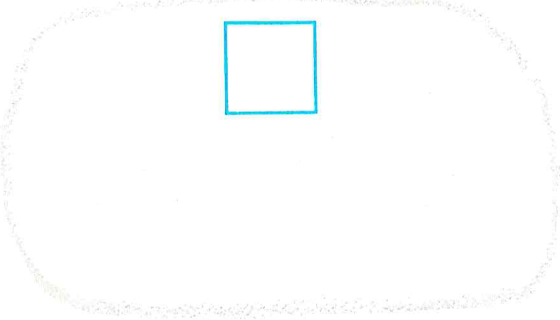

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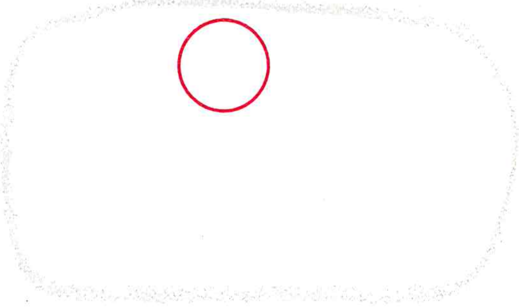

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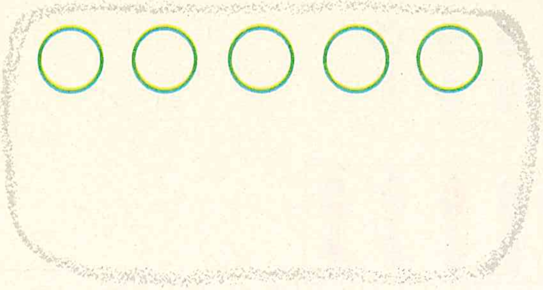

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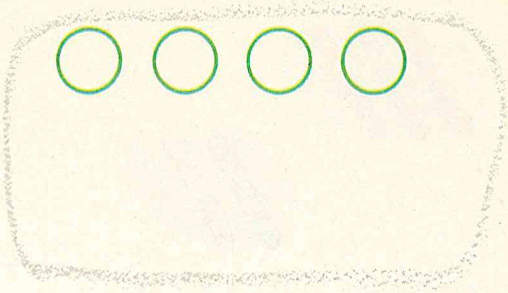

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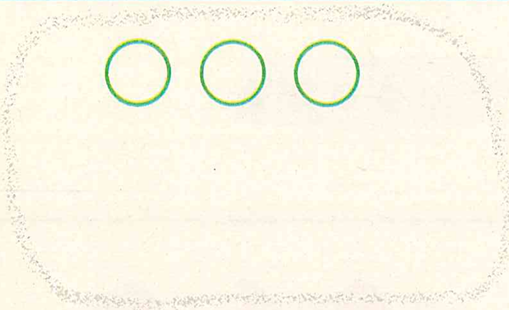

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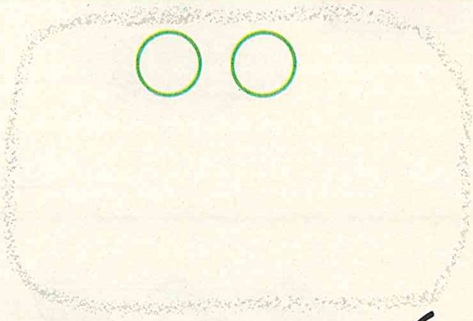

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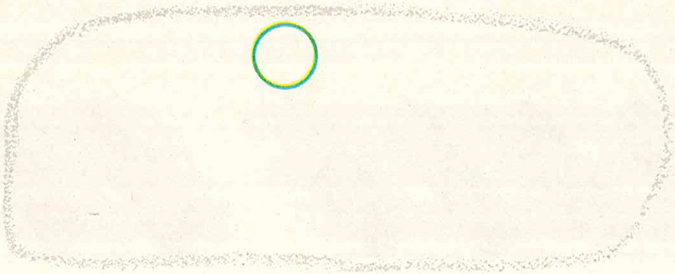

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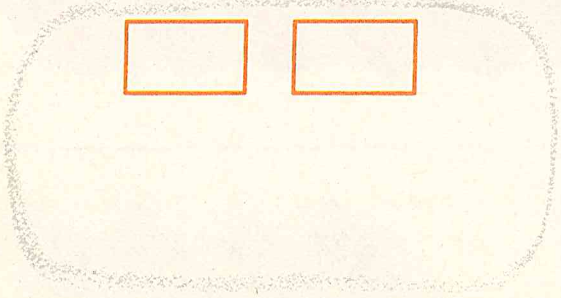

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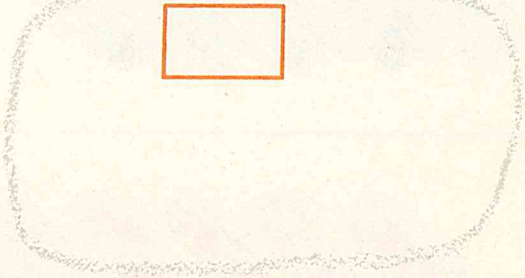

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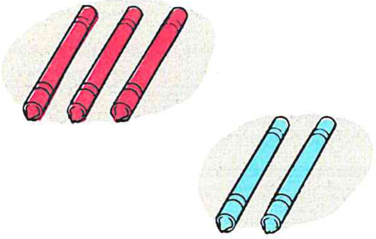

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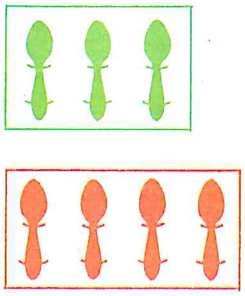

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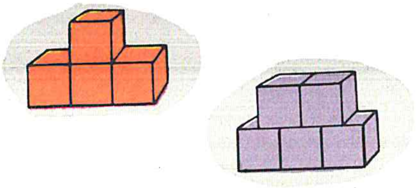

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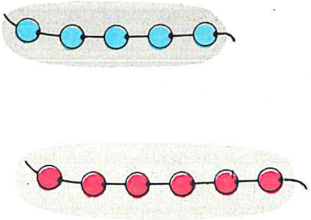

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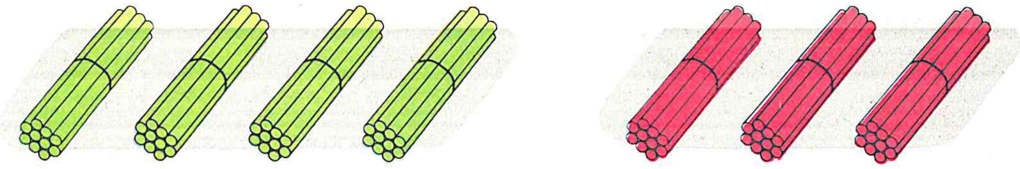

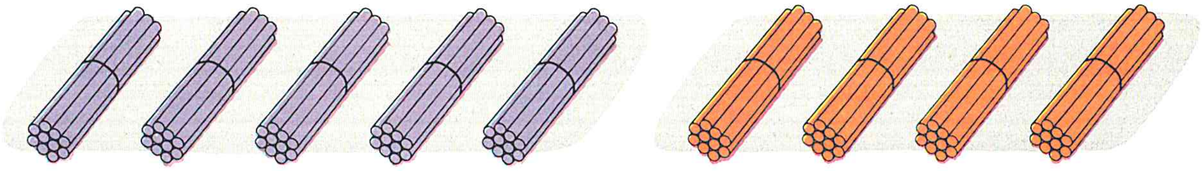

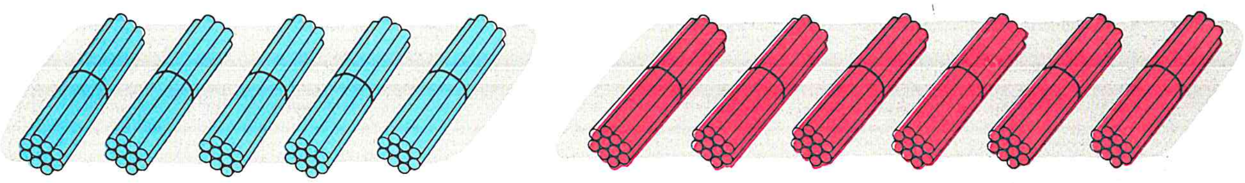

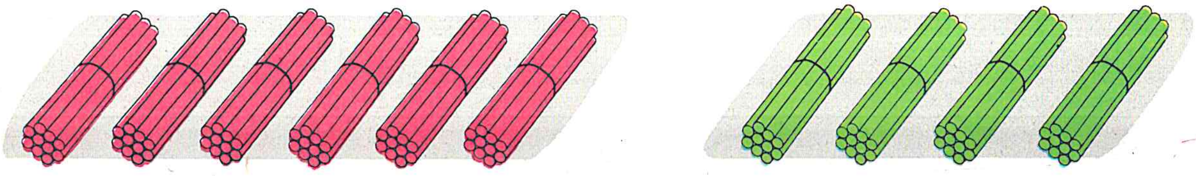

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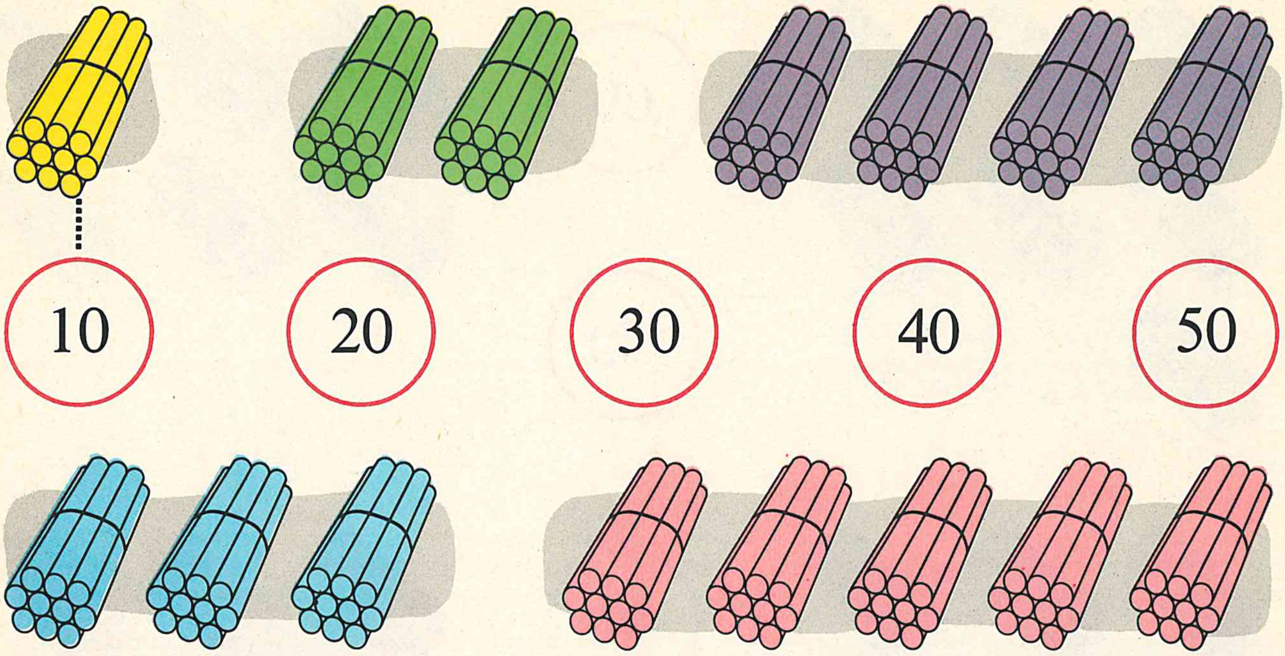
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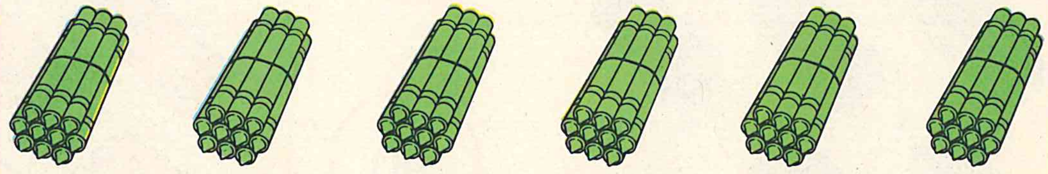
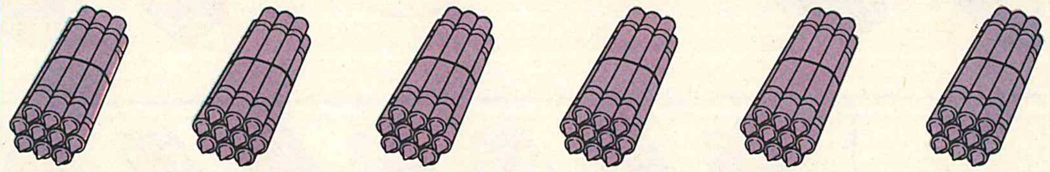
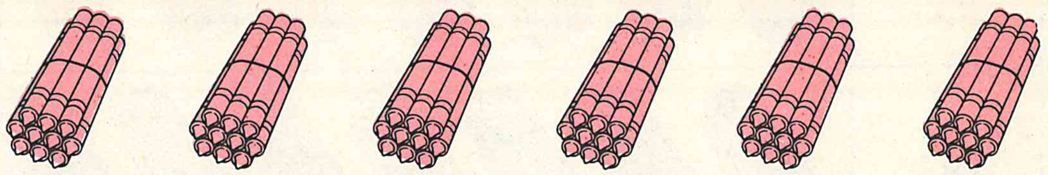
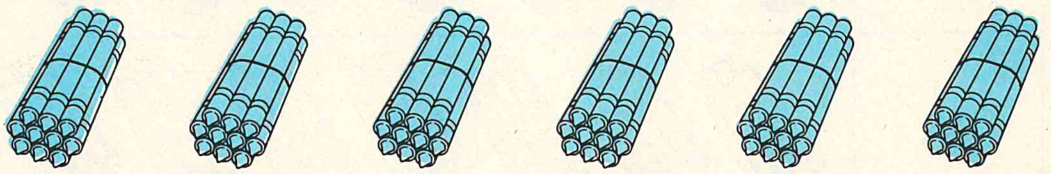
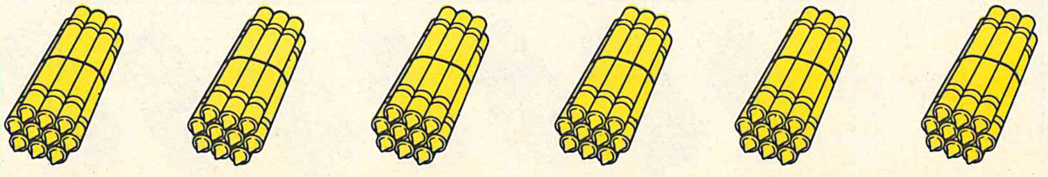
40	
20	
30	
10	
50	

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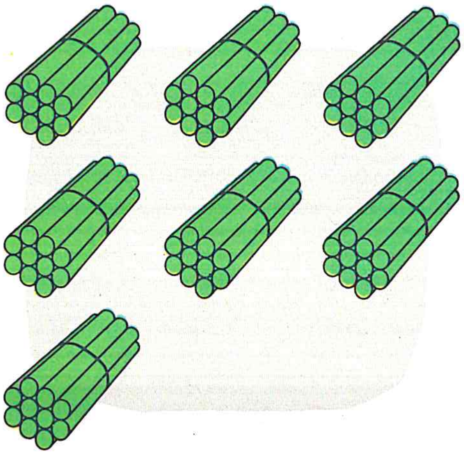

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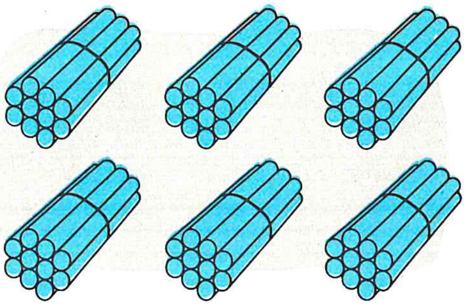

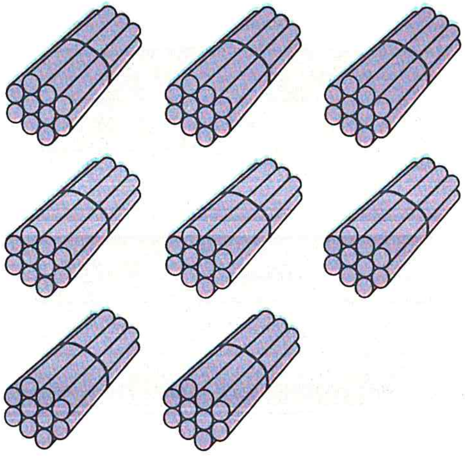

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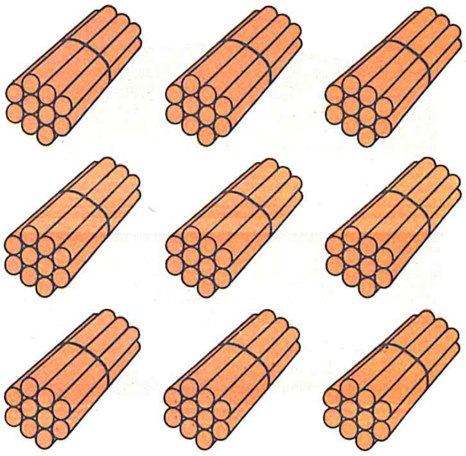
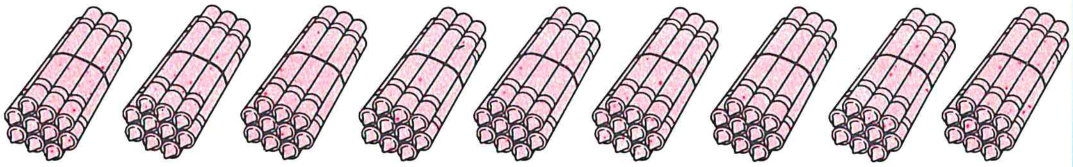
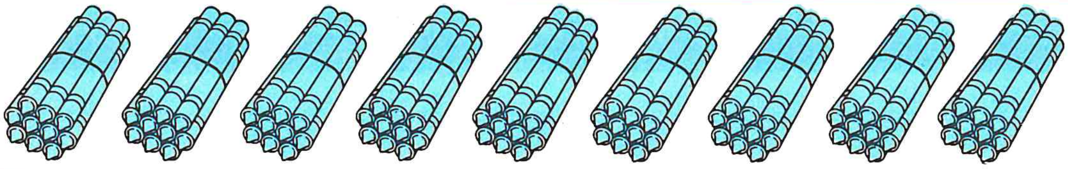
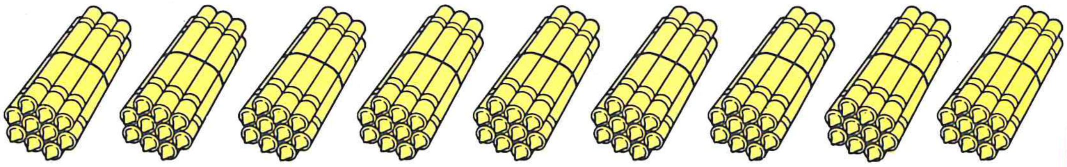
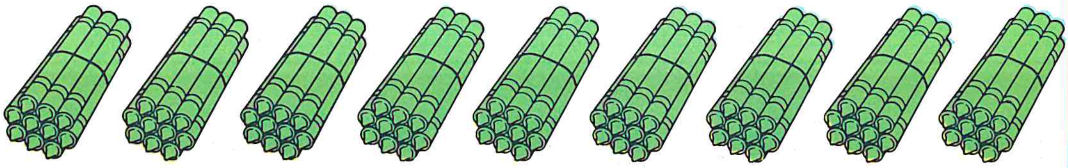


80	
60	
90	
70	

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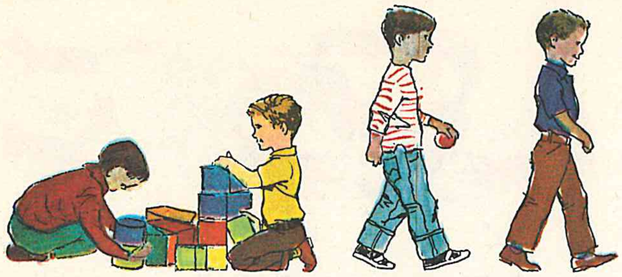

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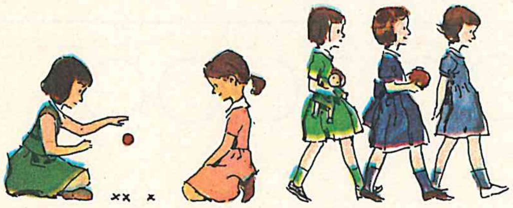

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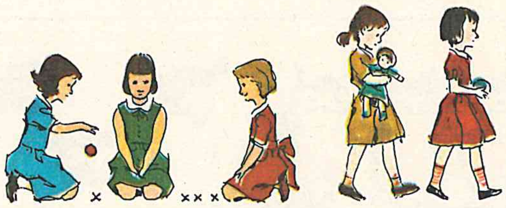

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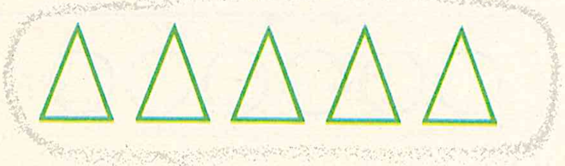

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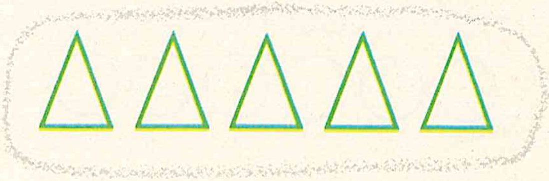

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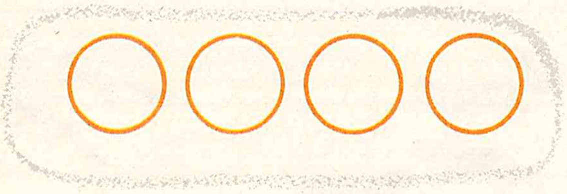

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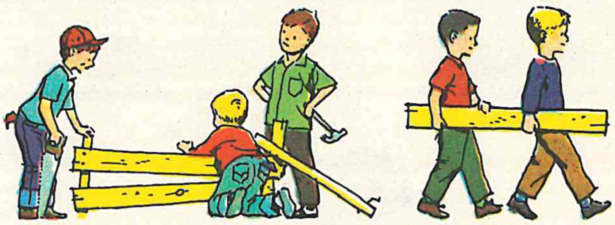

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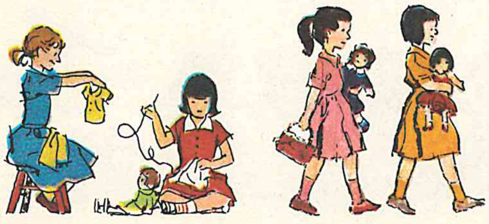

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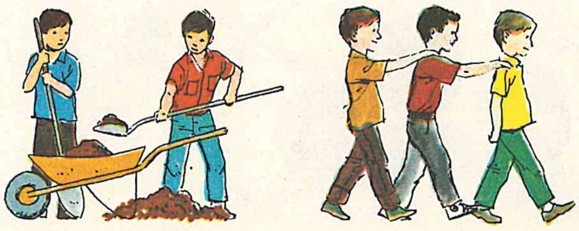

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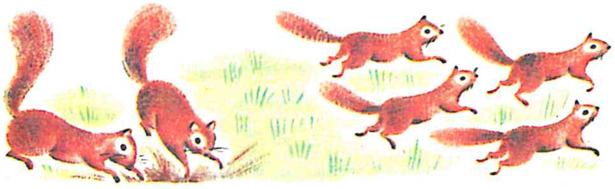

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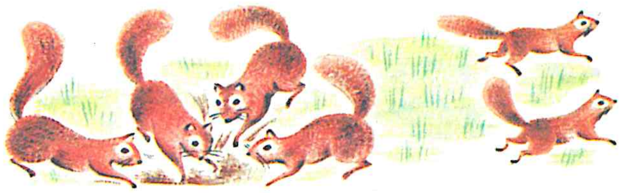

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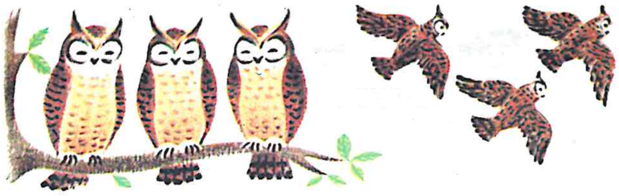

6 less 3 is ____

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6 less 3 is ____

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6 less 4 is ____

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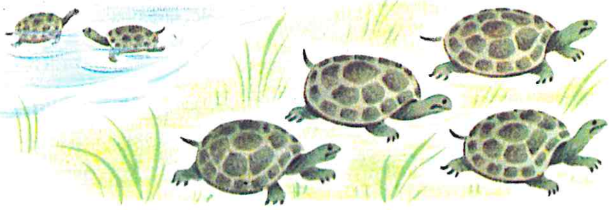

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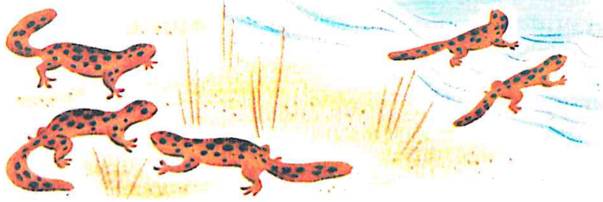

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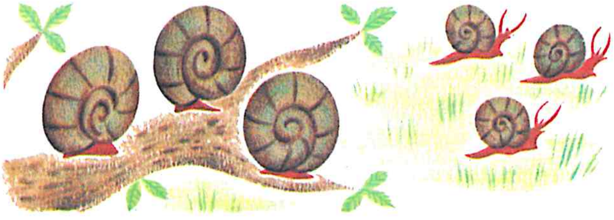

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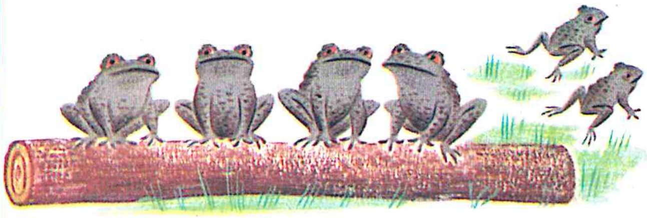

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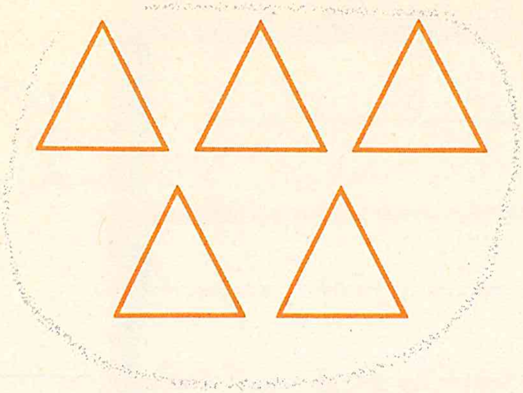

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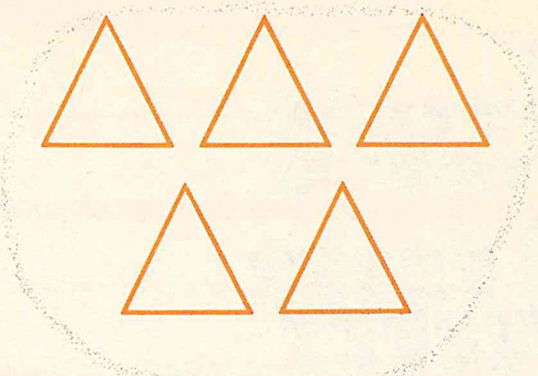

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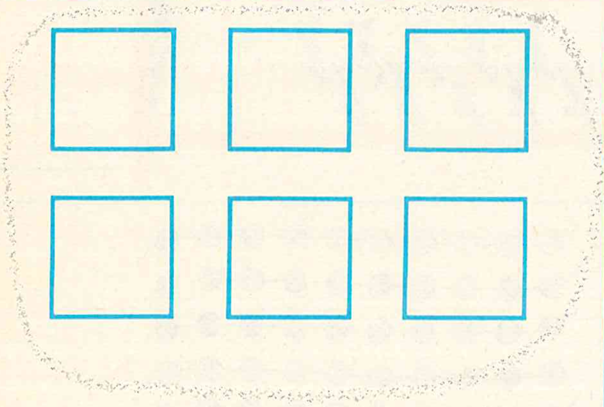

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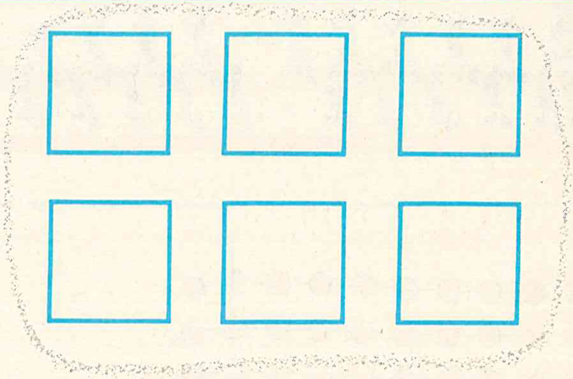

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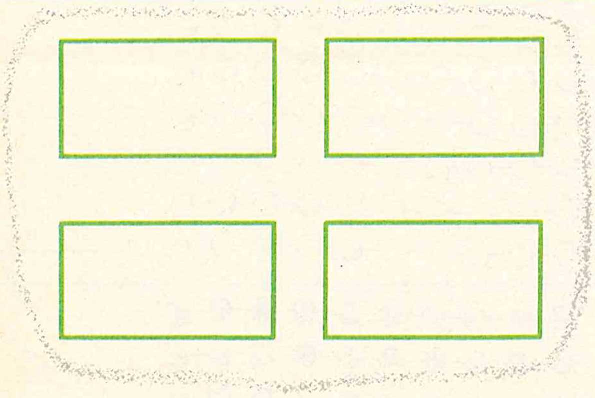

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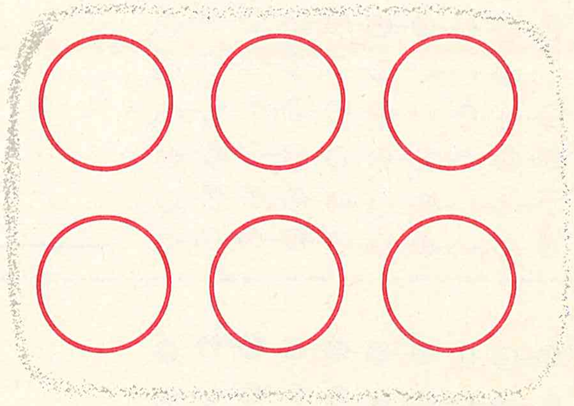

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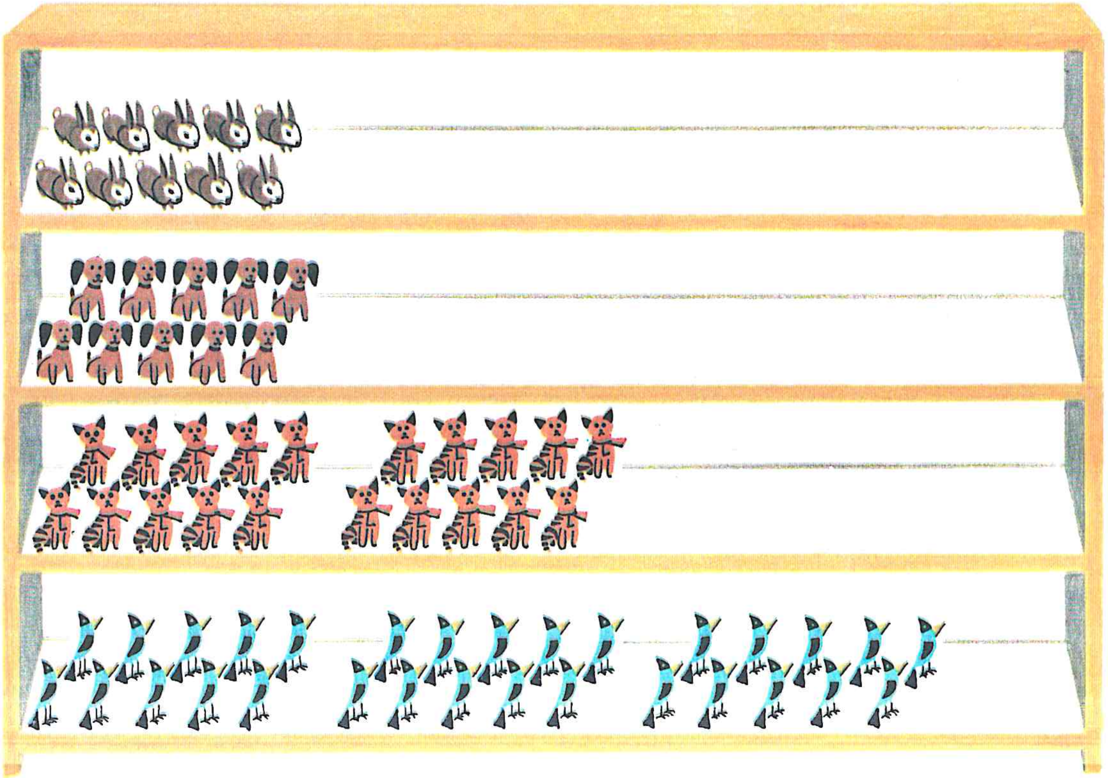

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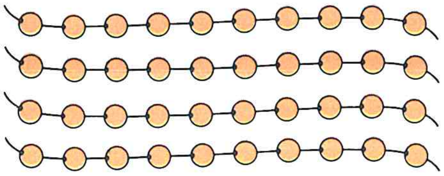

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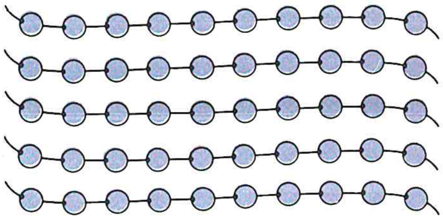

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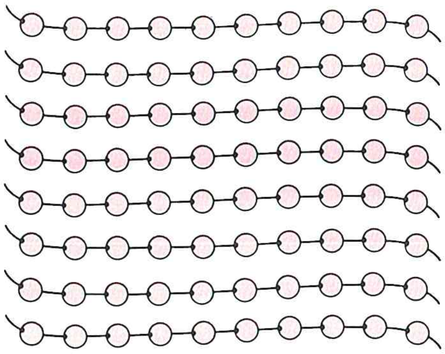

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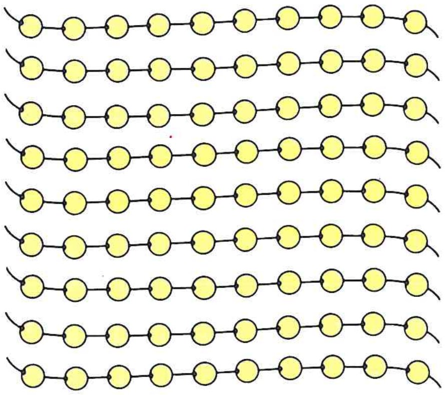

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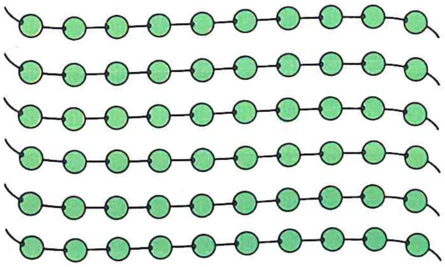

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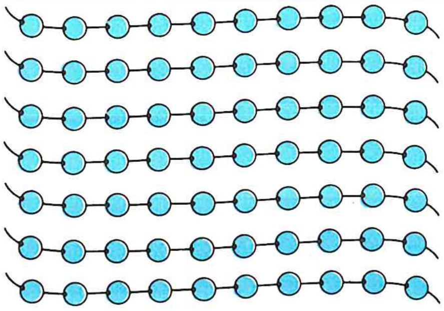

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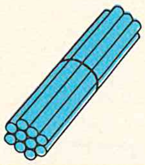

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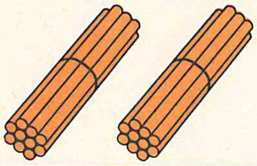

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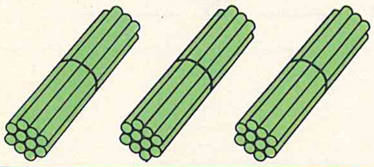

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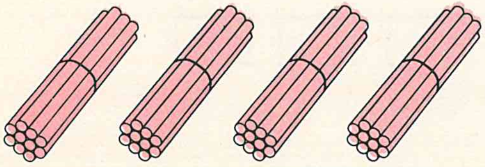

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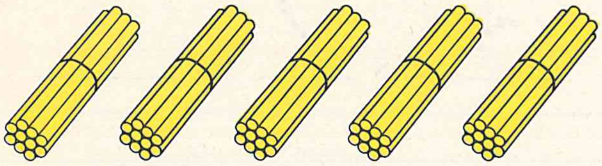

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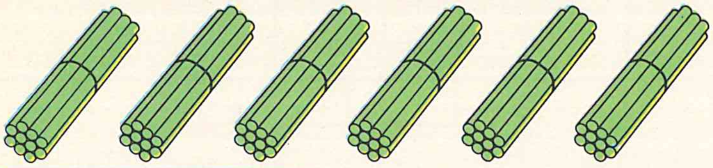

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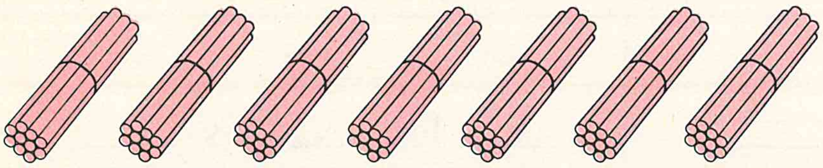

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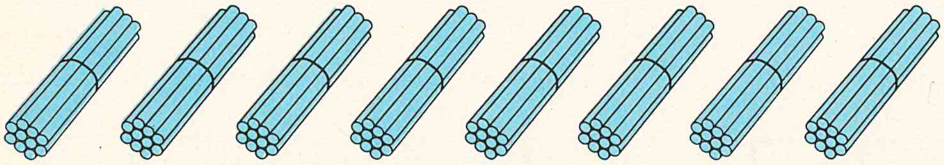

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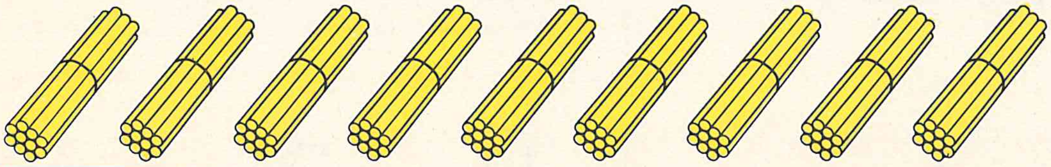

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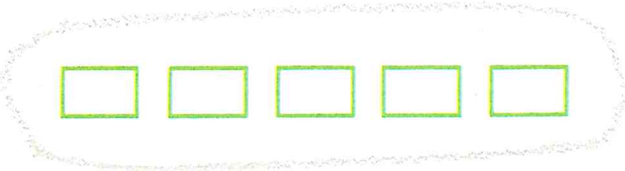

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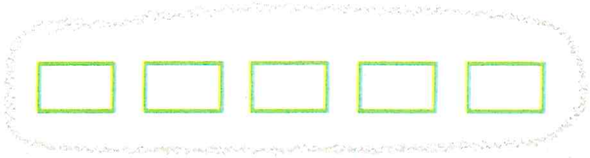

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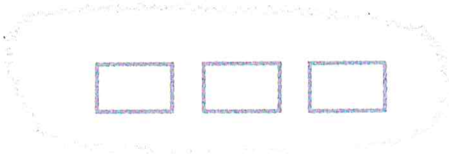

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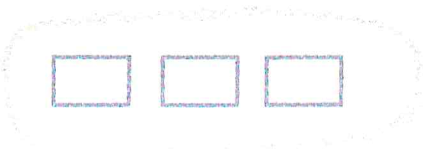

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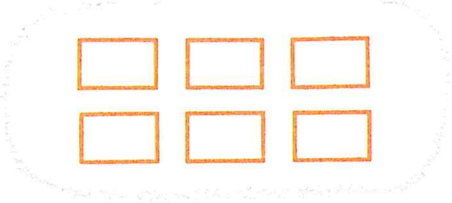

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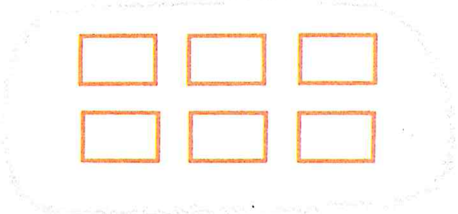

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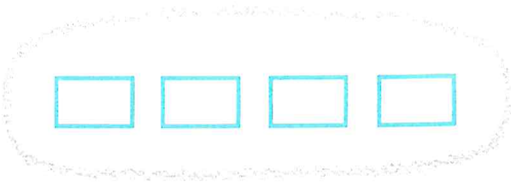

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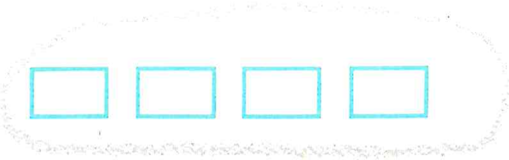

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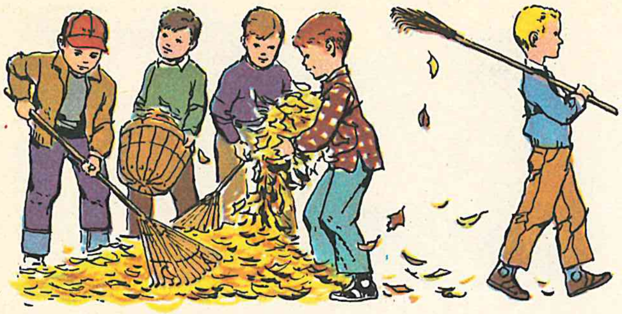

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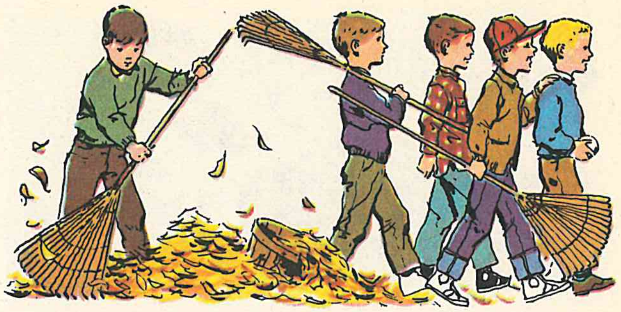

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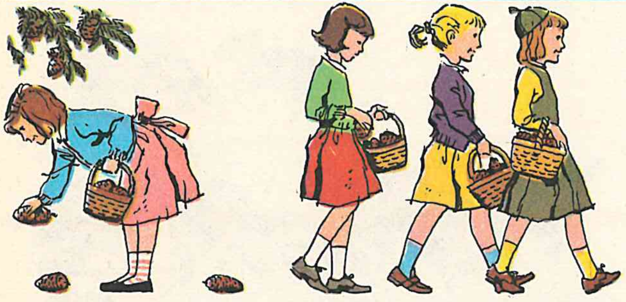

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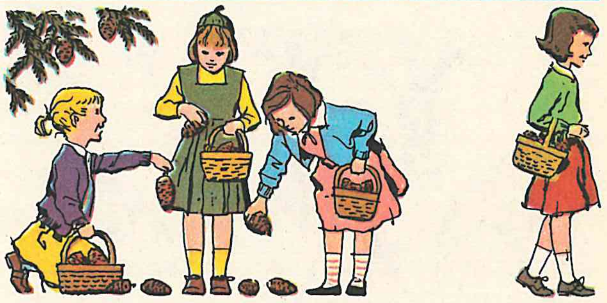

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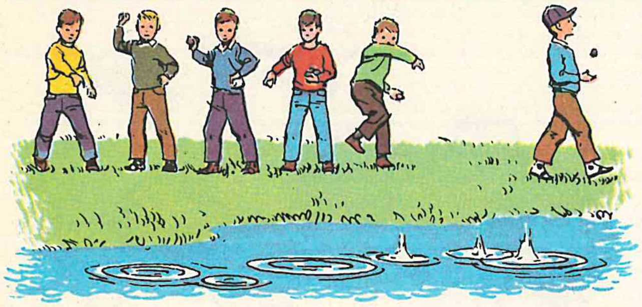

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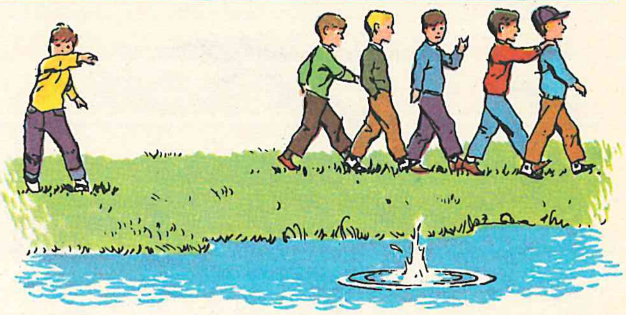

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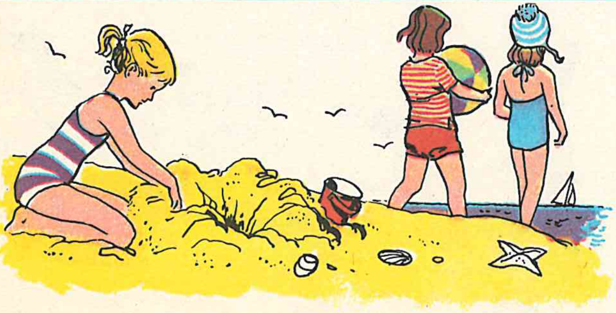

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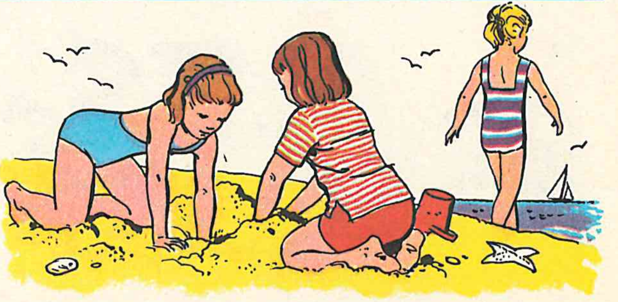

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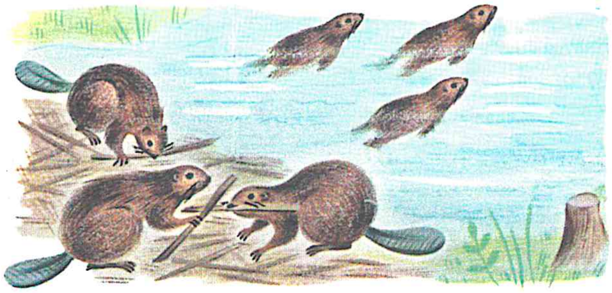

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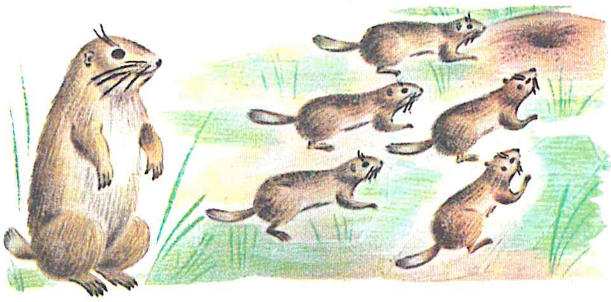

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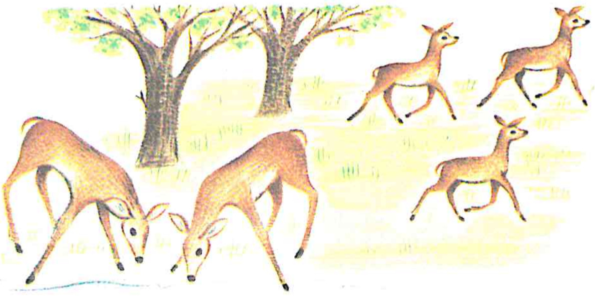

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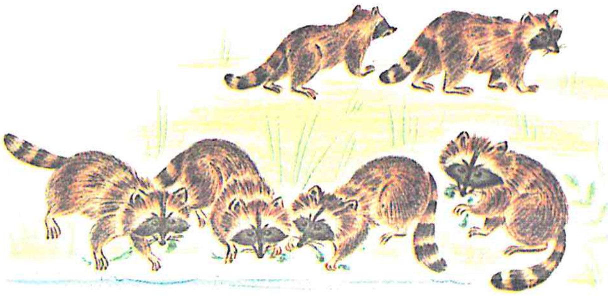

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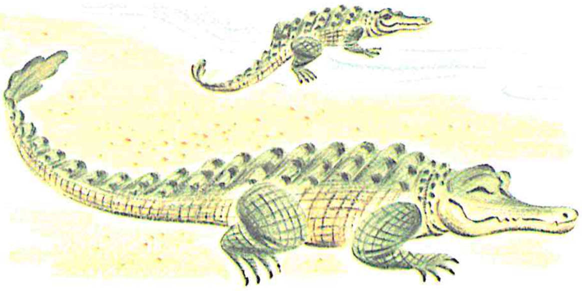

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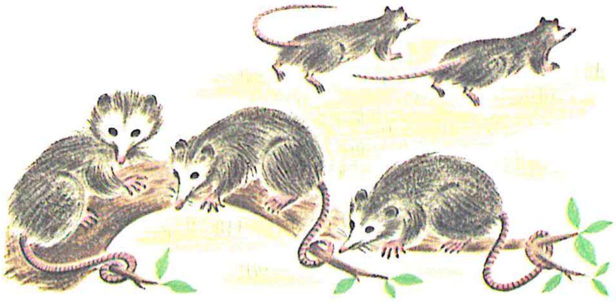

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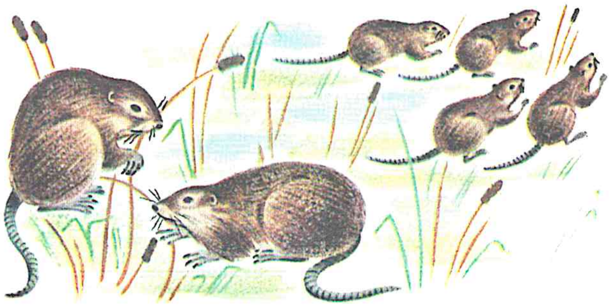

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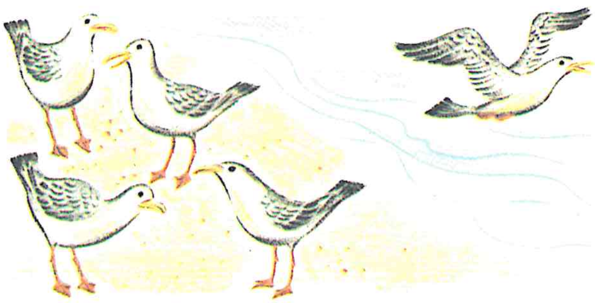

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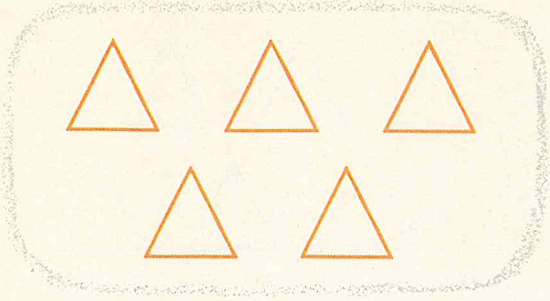

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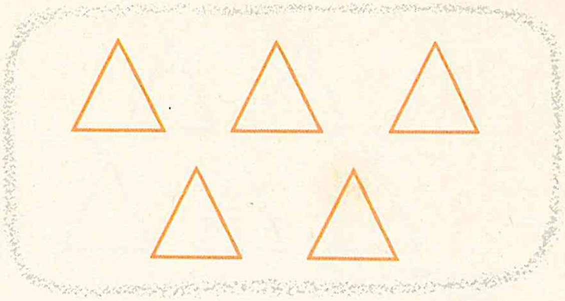

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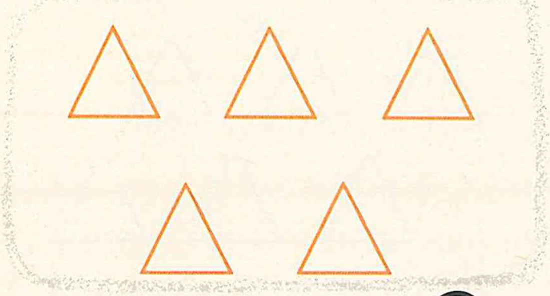

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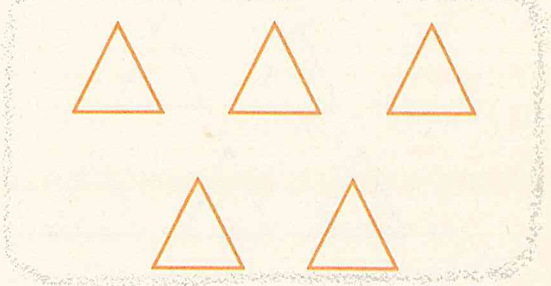

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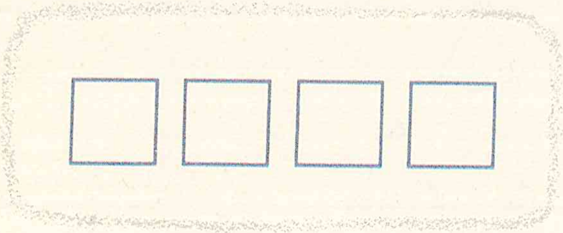

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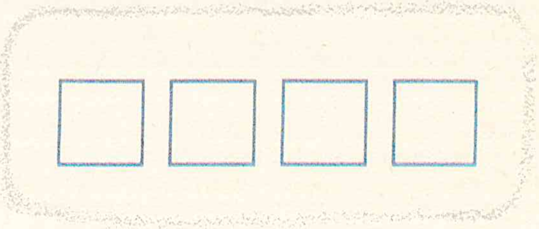

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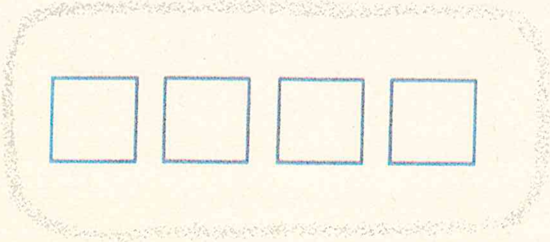

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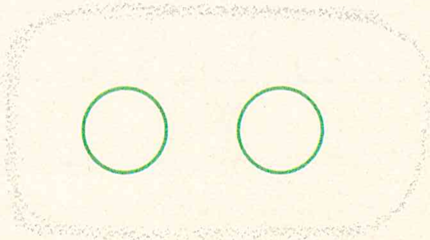

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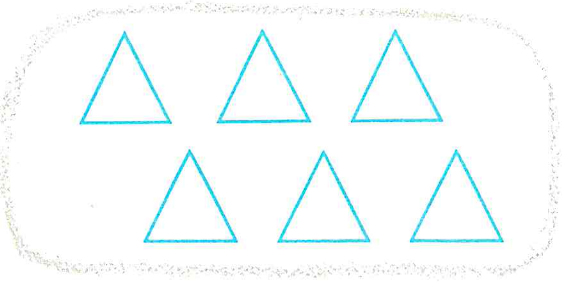

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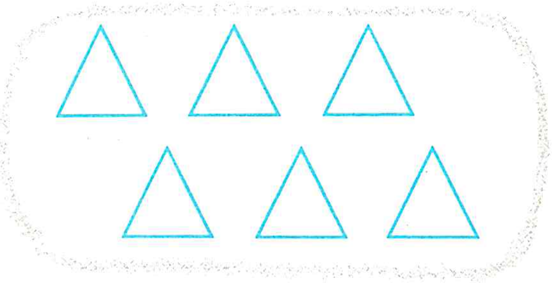

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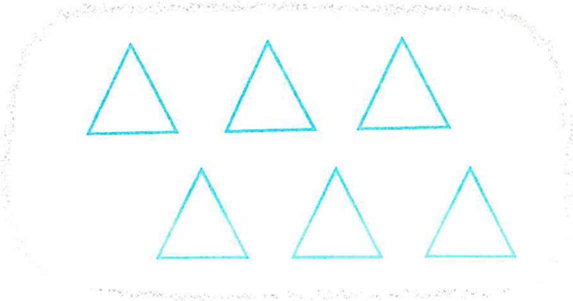

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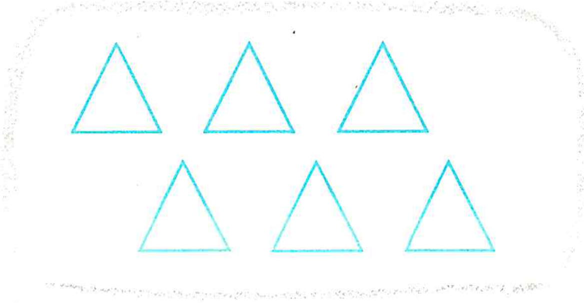

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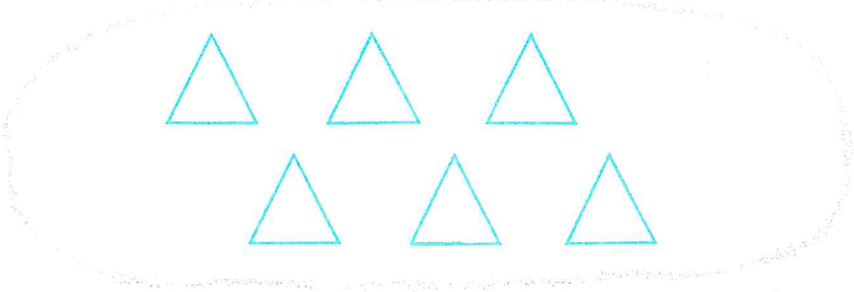

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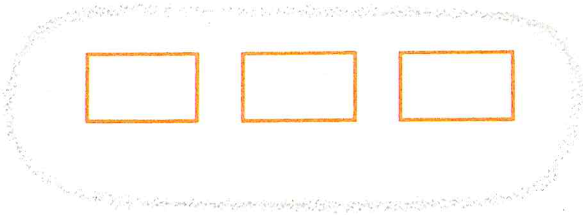

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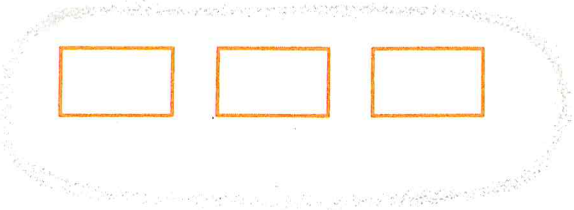

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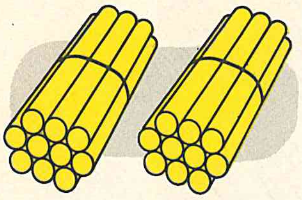

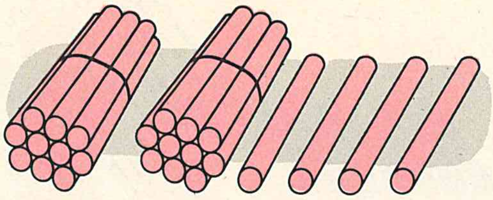

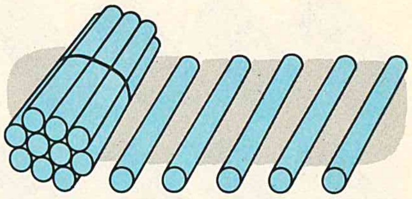

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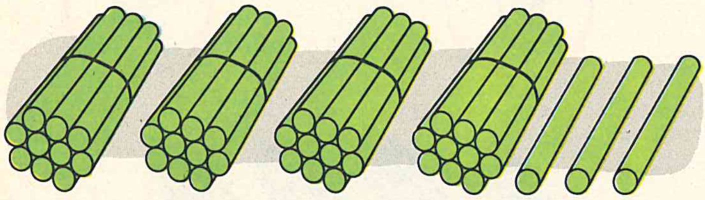
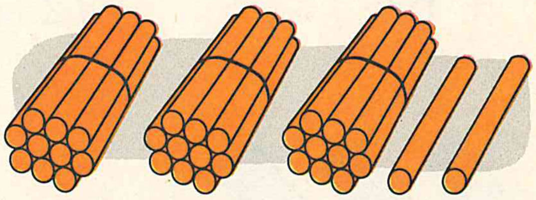
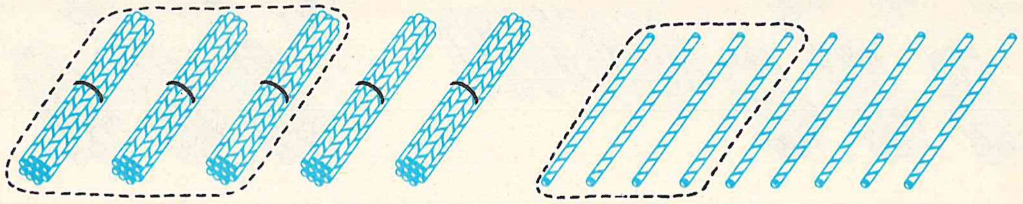
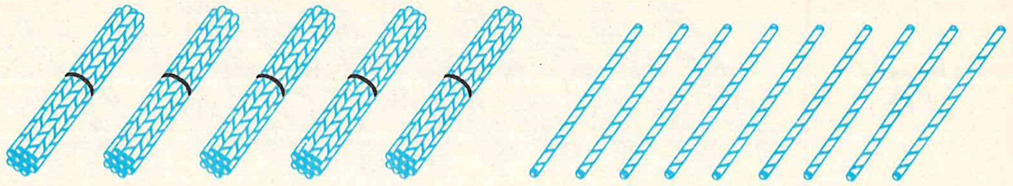
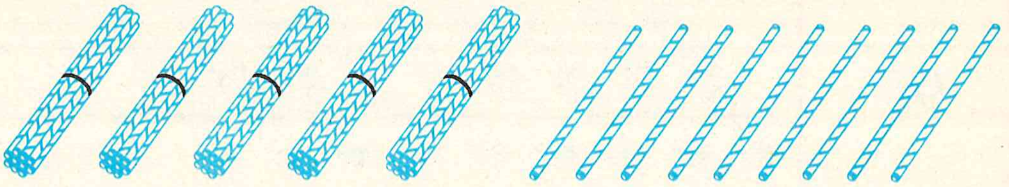
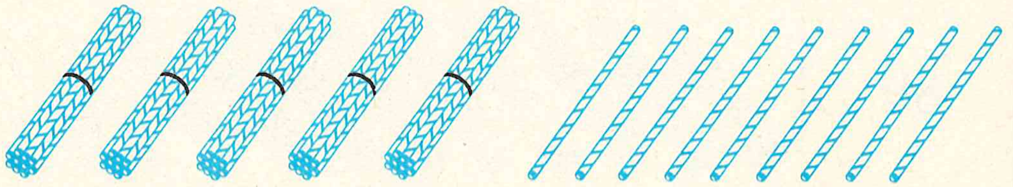
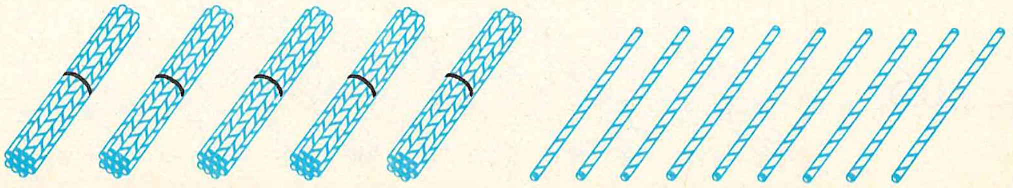




34	
46	
23	
17	
51	

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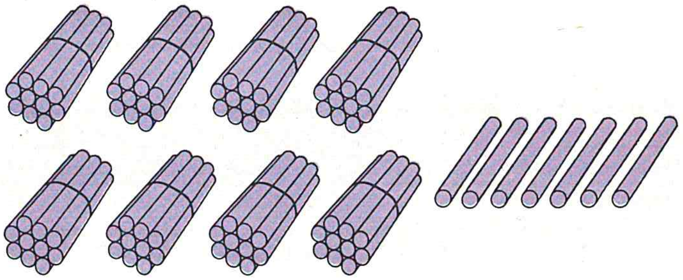

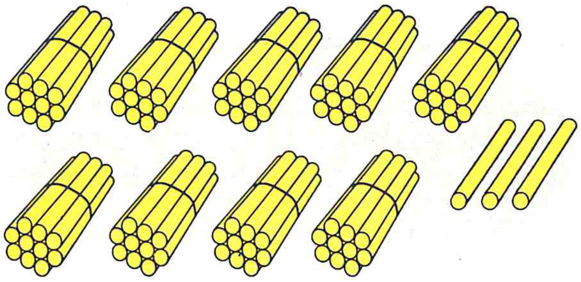

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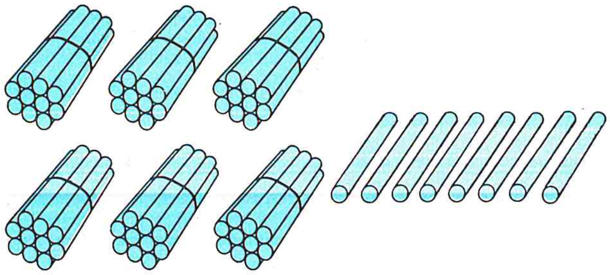
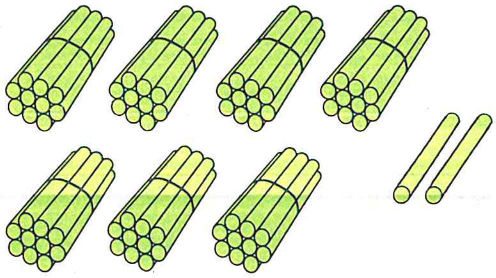
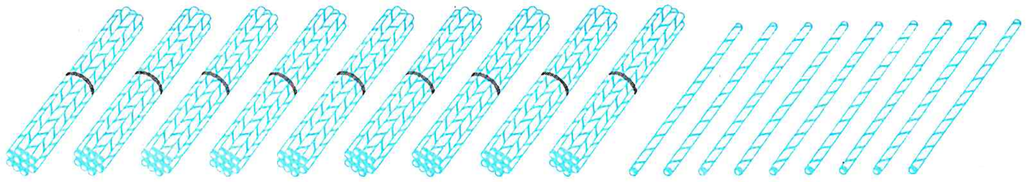
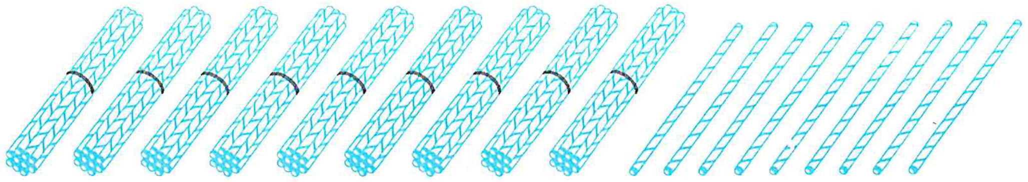
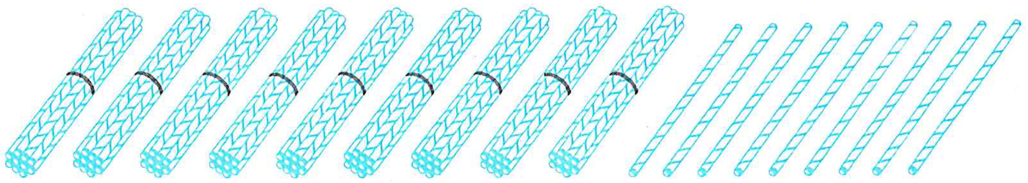
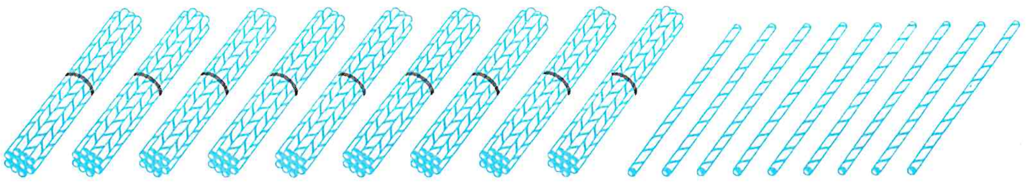




78	
95	
89	
66	

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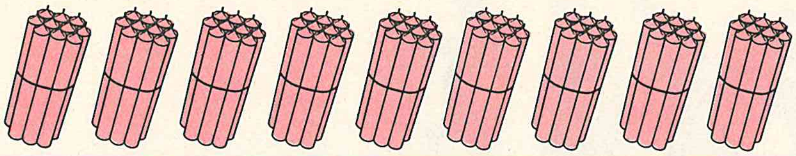

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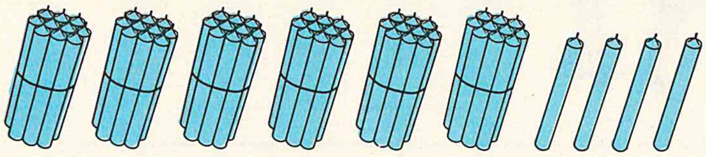

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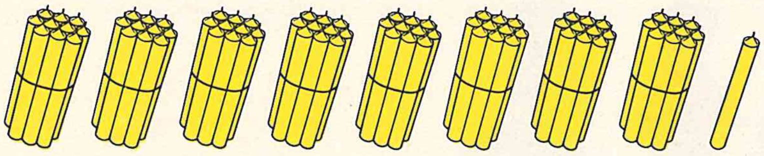

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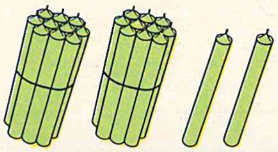

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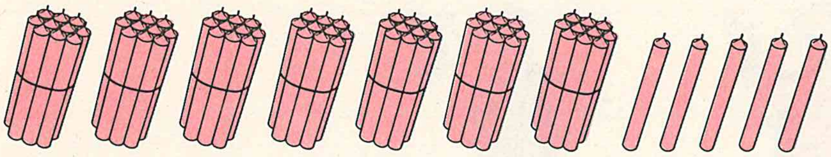

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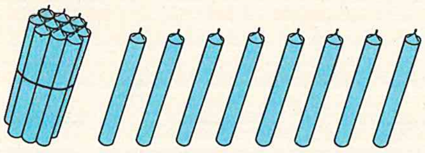

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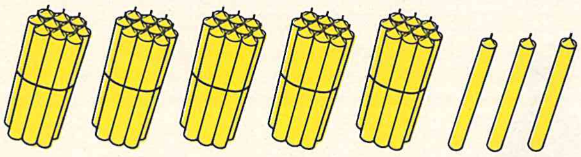

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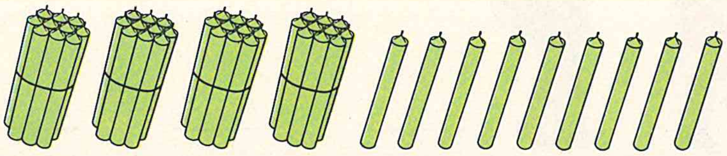

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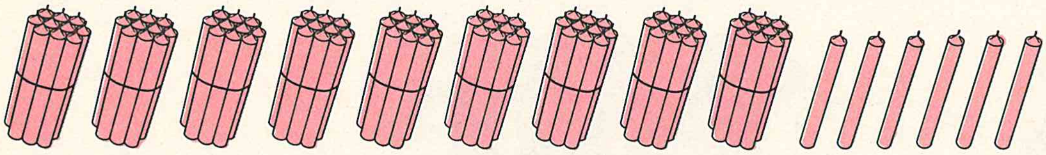

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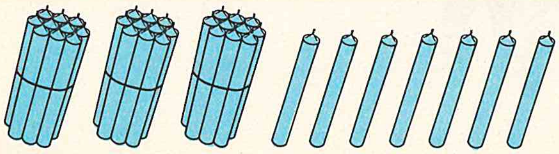

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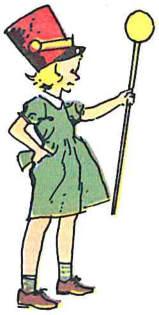

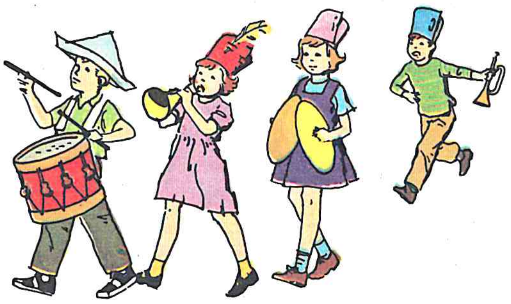

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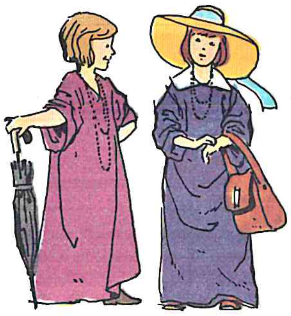

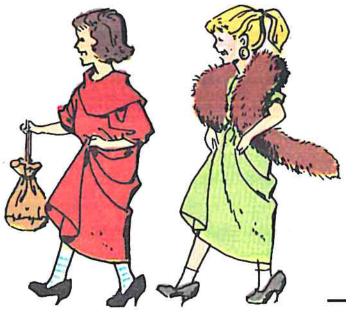

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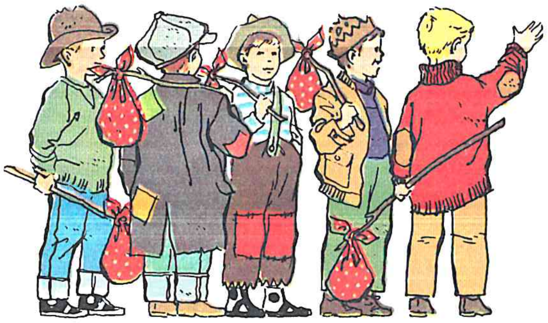

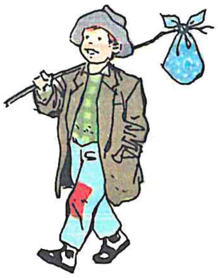

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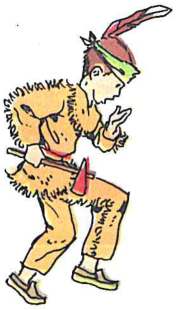

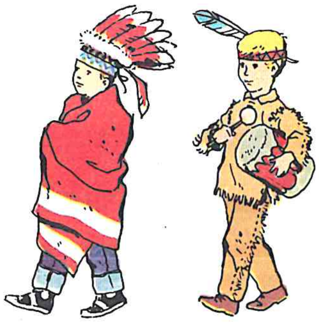

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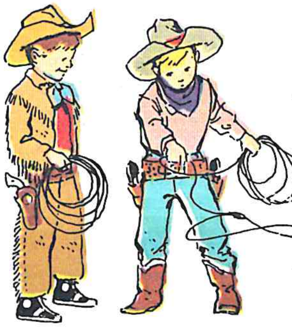

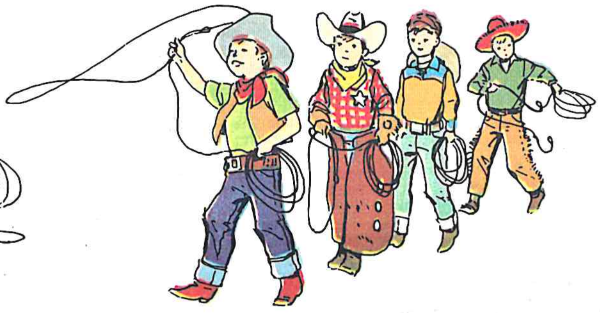

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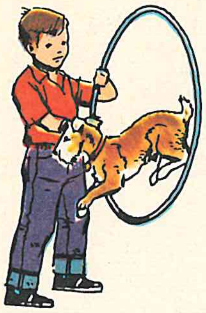

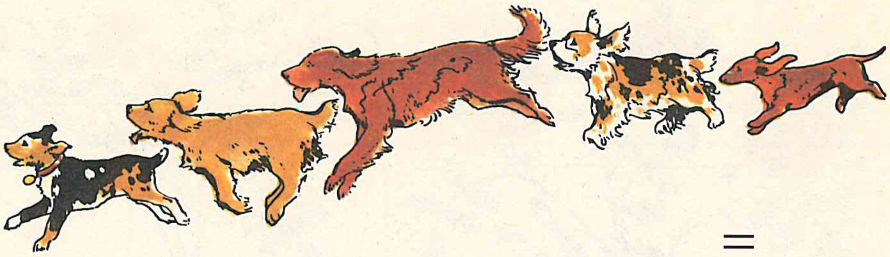

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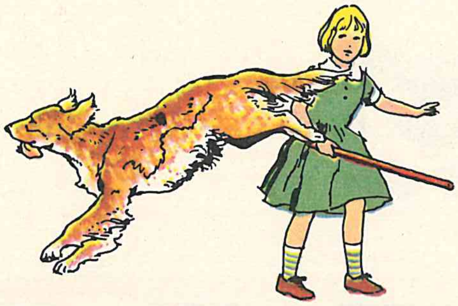

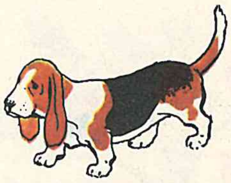

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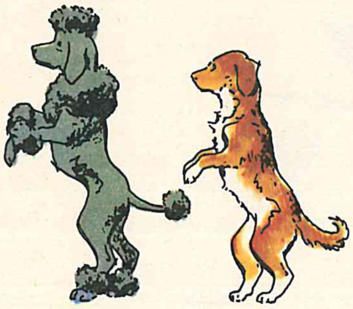

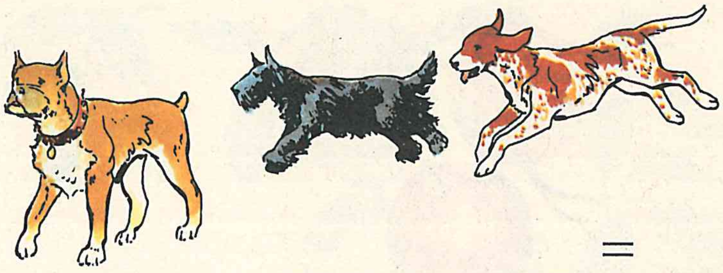

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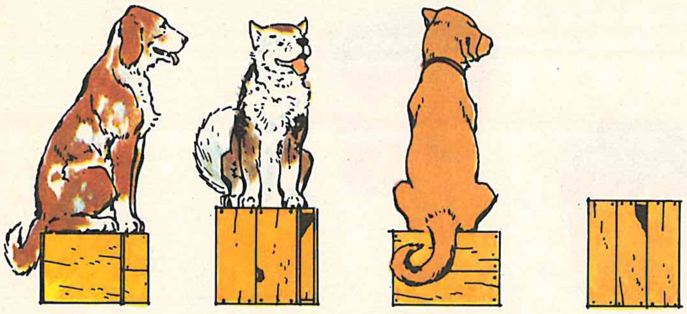

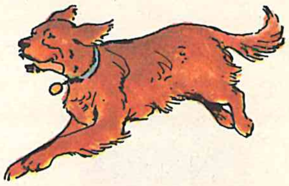

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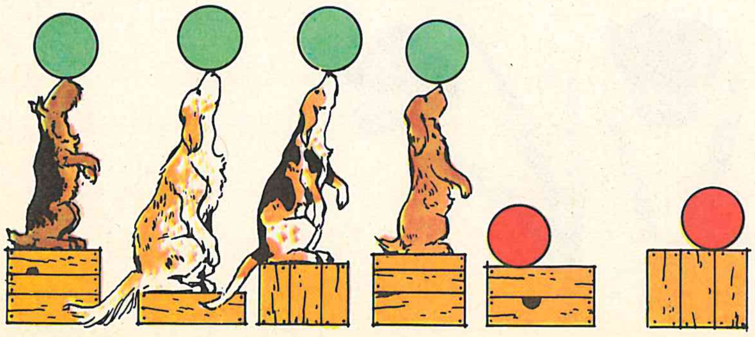

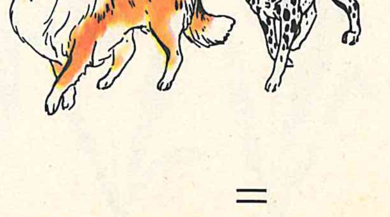

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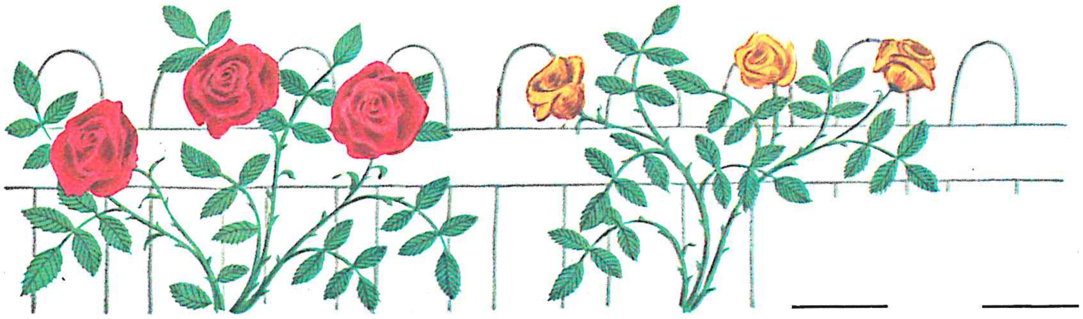

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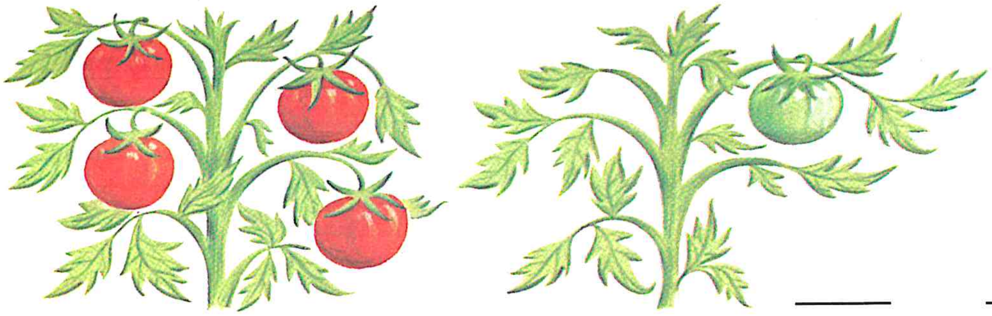

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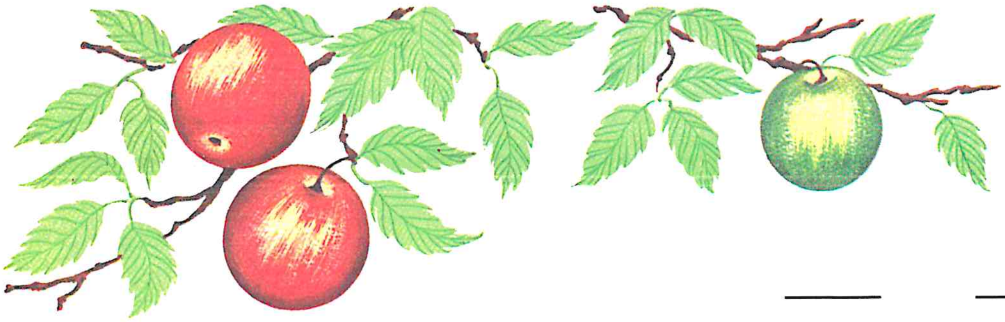

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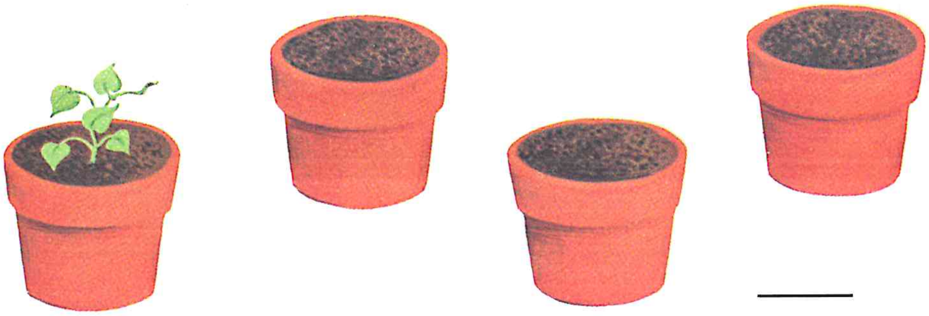

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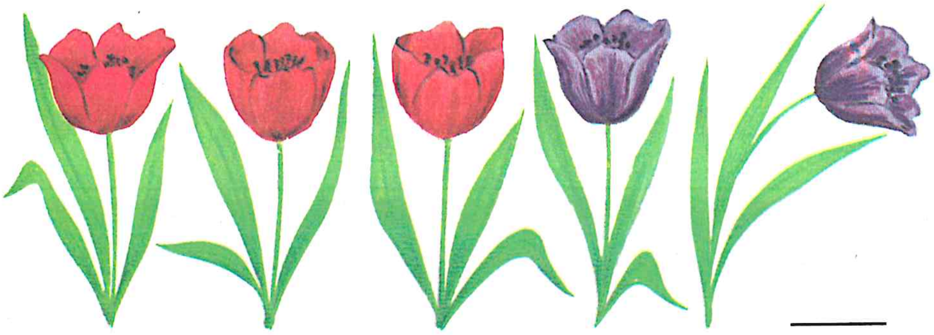

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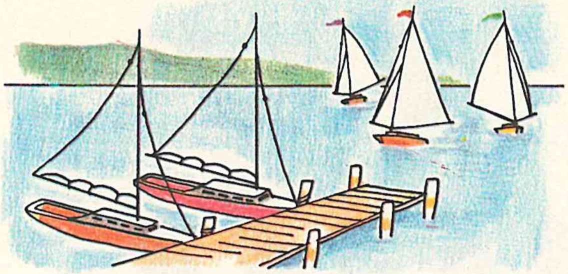

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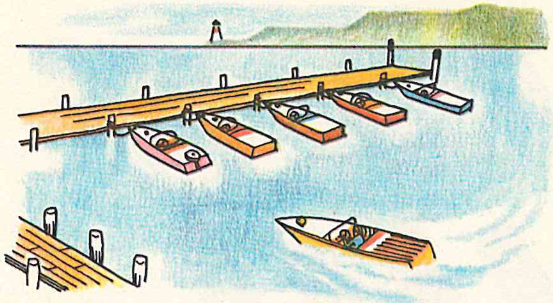

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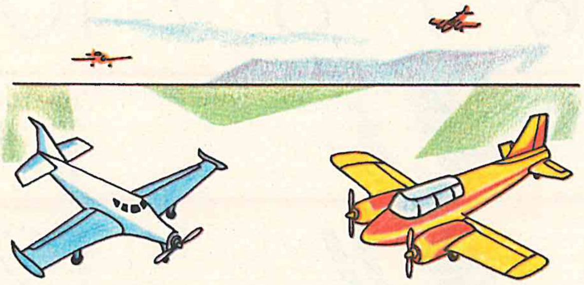

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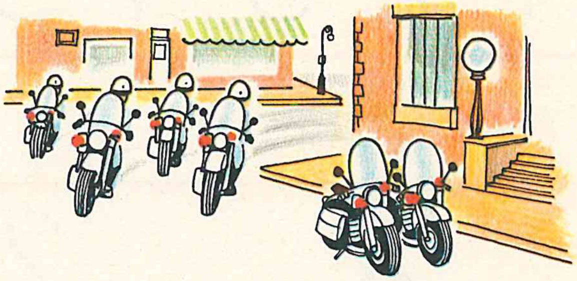

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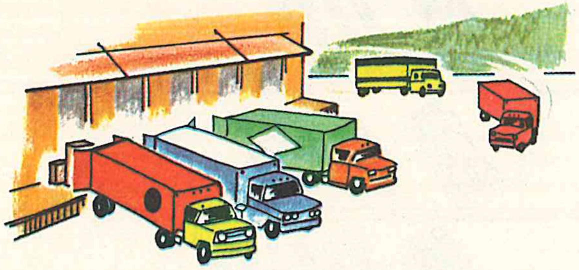

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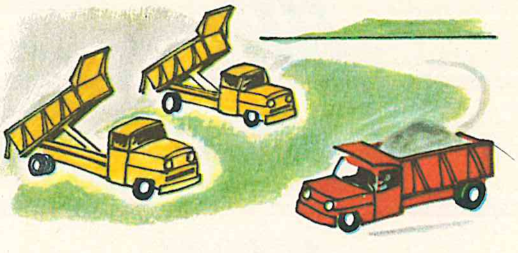

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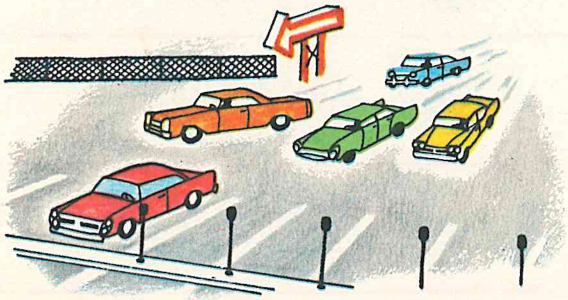

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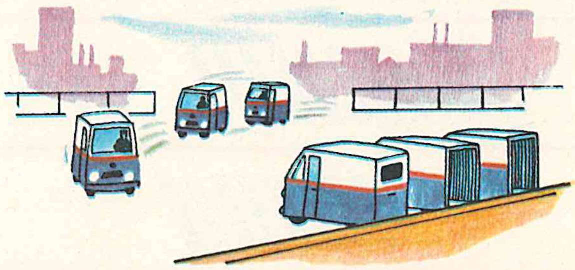

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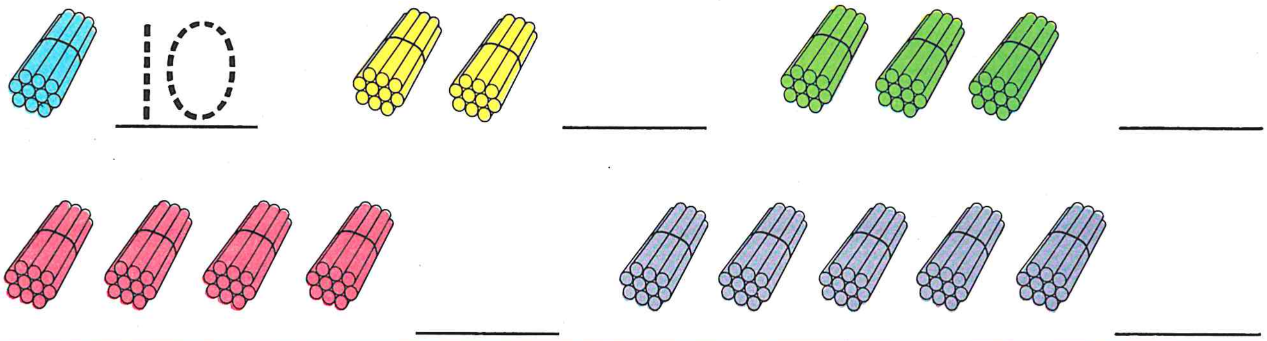

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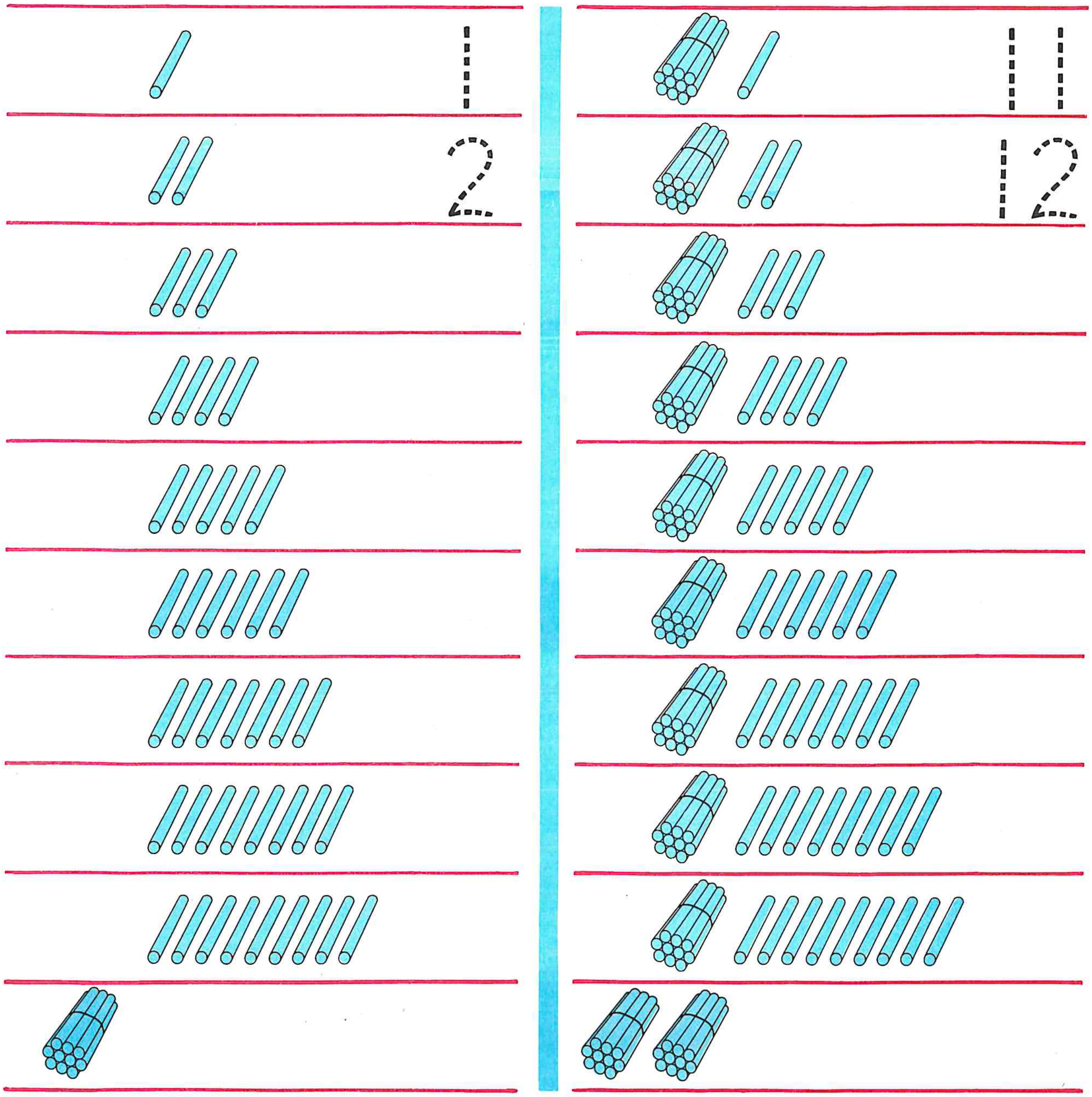

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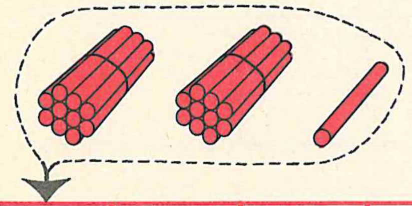

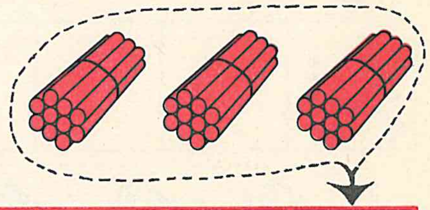

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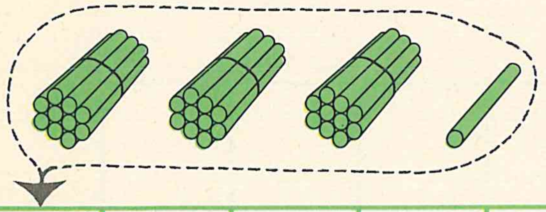

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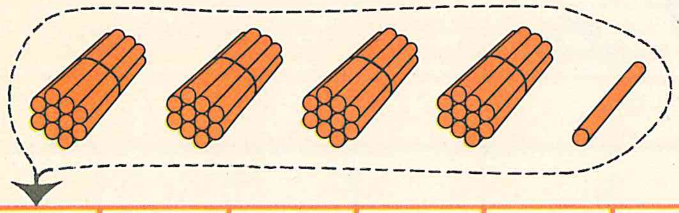

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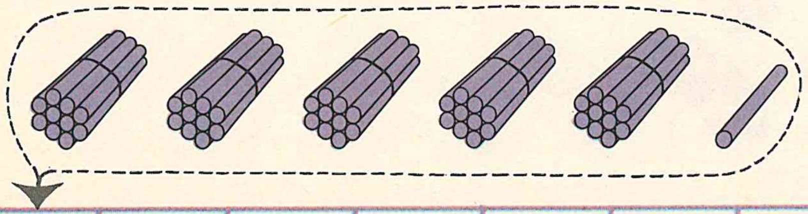

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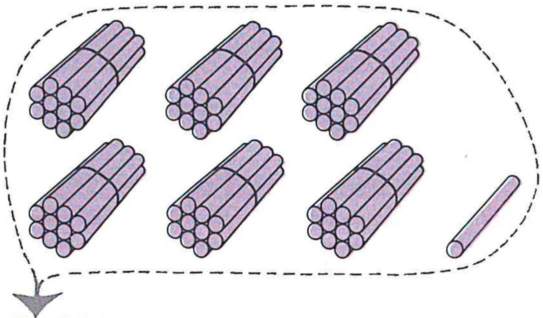

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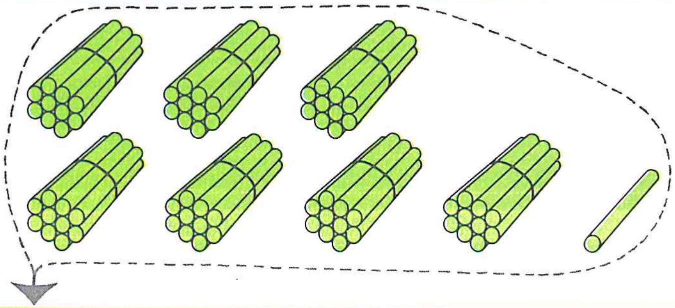

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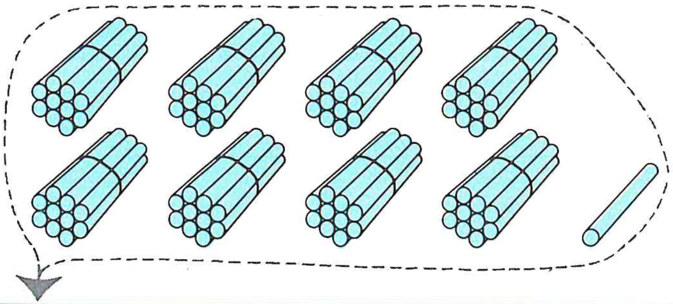

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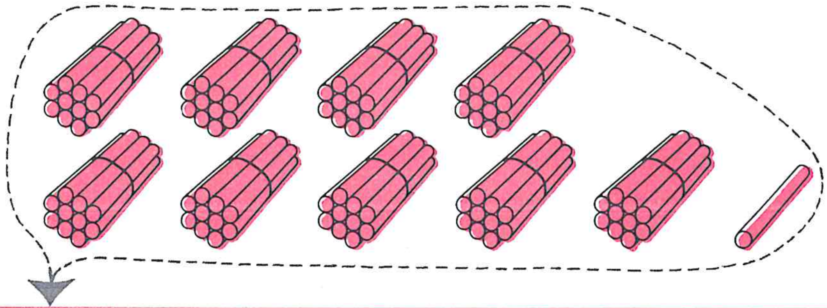

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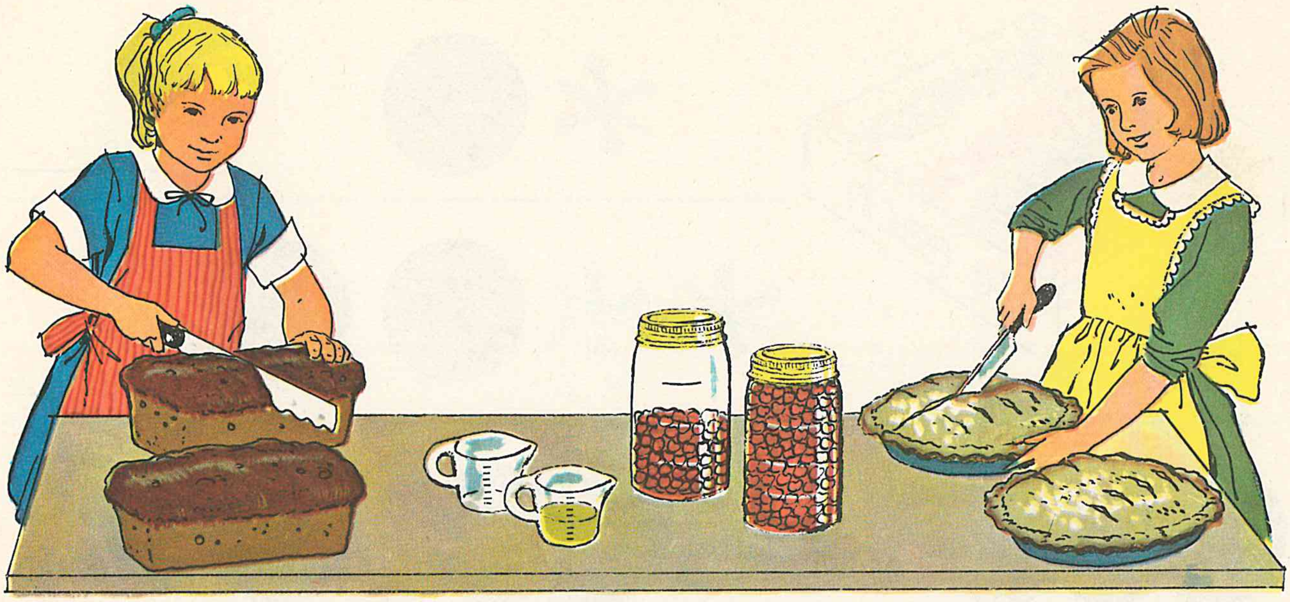

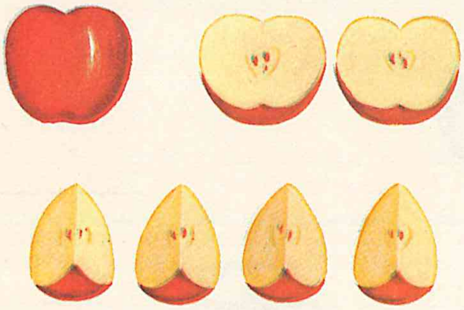

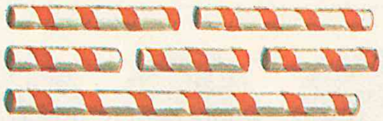

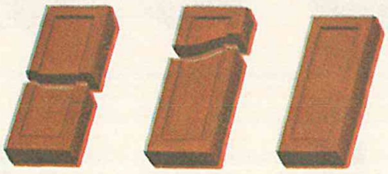

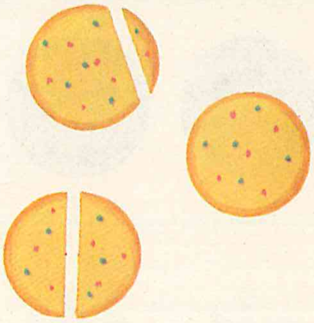

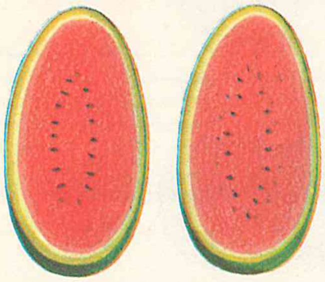

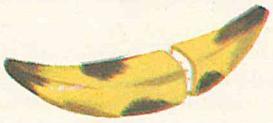

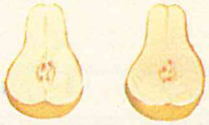

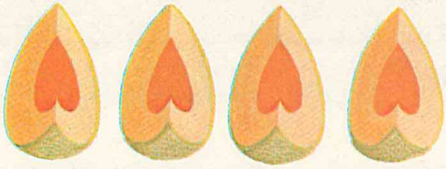

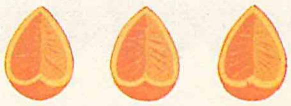

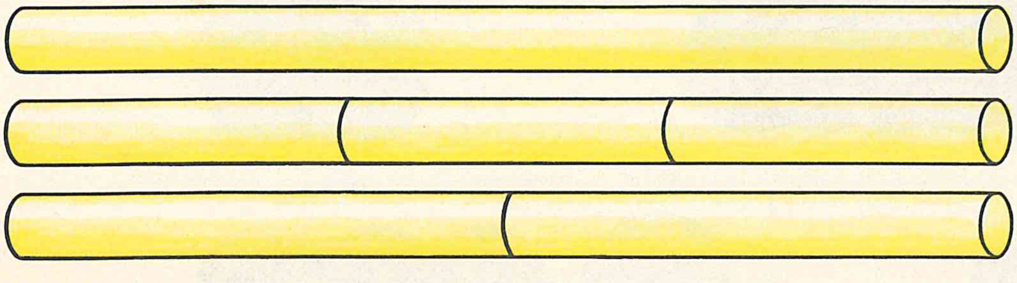

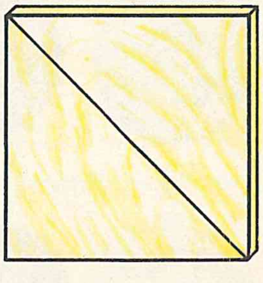

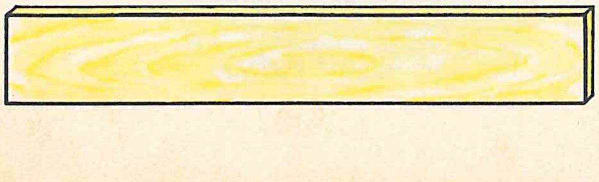

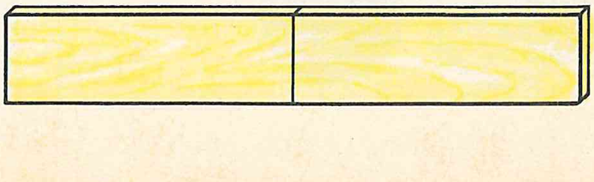

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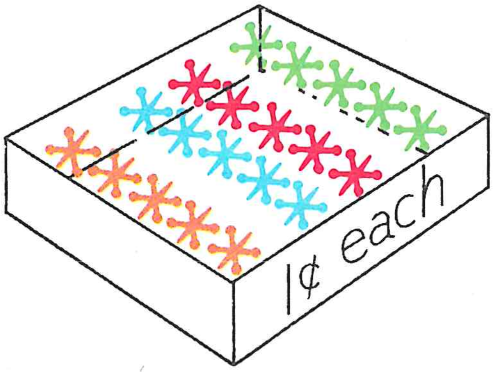

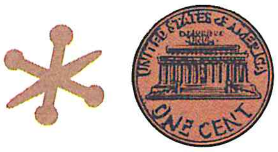

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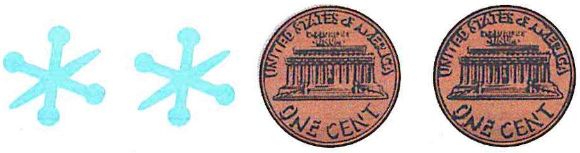

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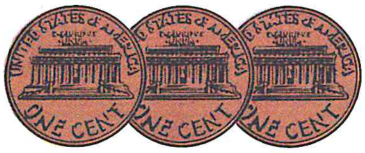

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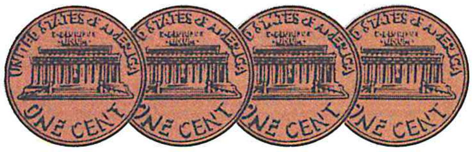

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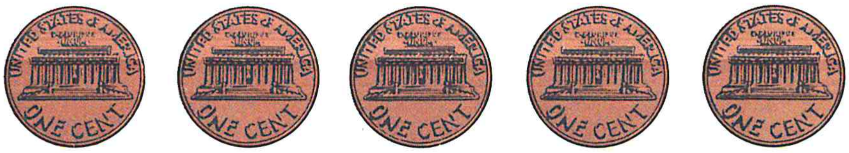

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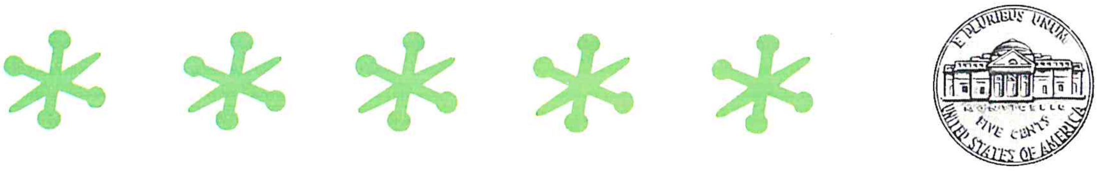

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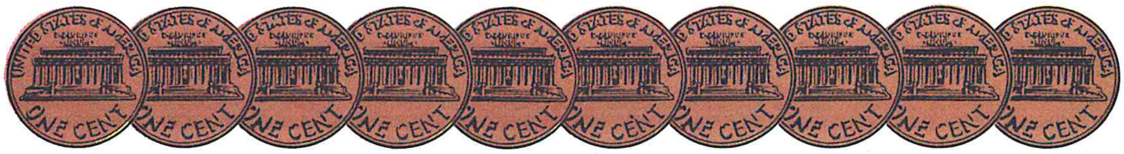

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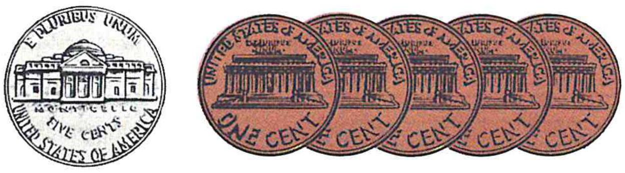

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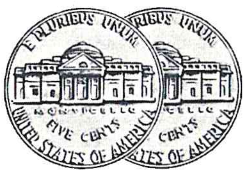

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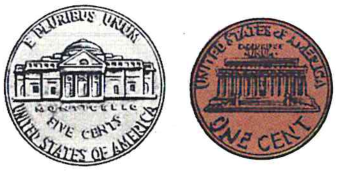

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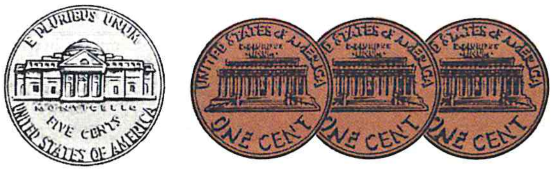

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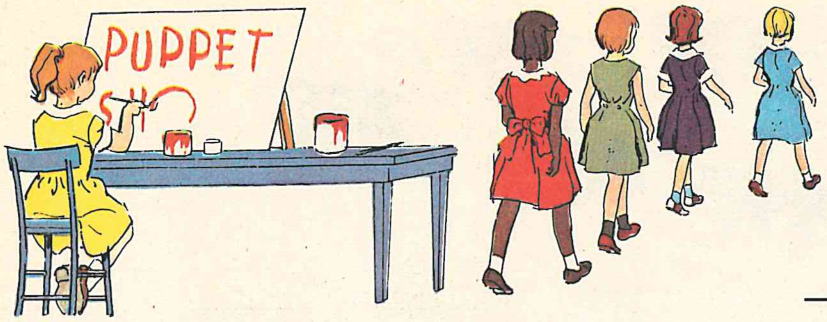

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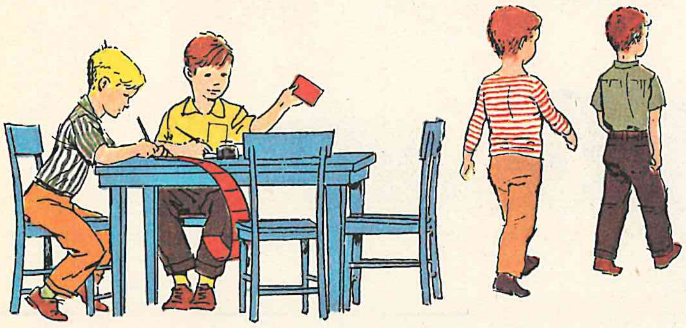

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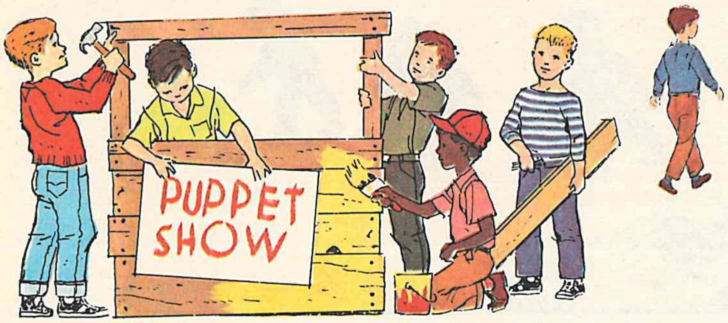
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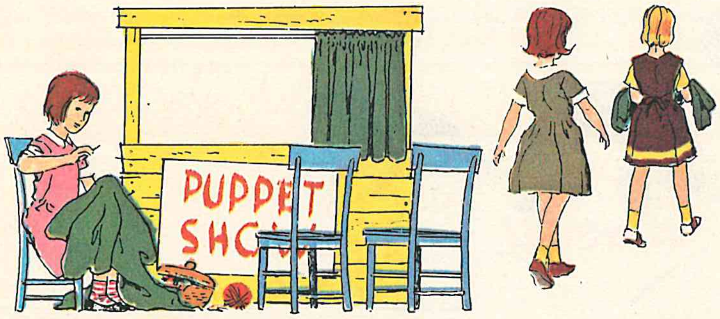
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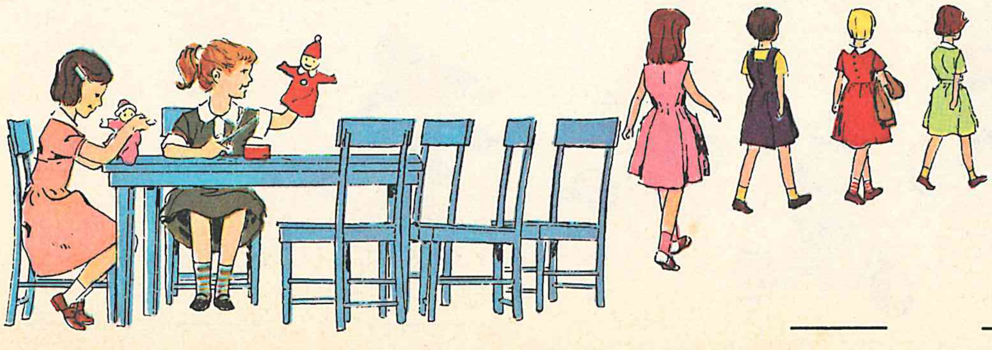

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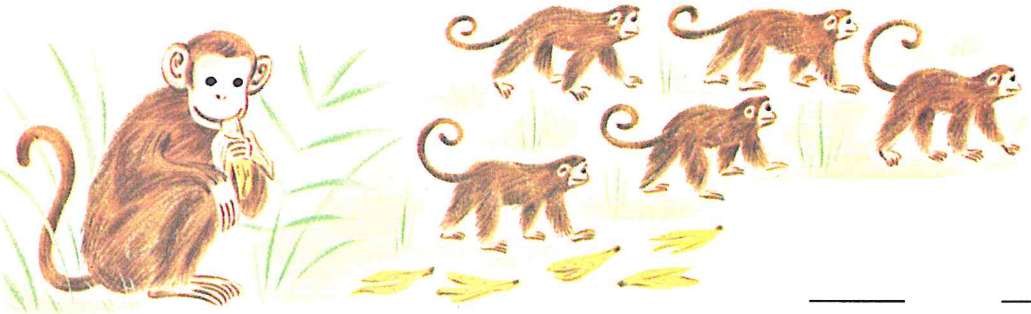

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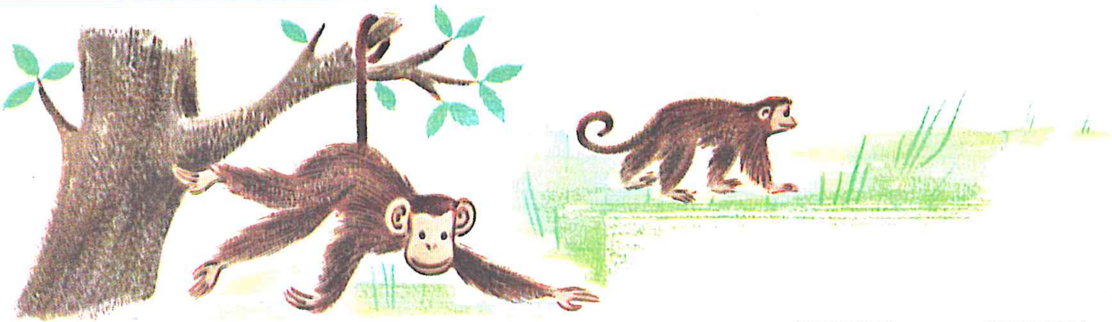

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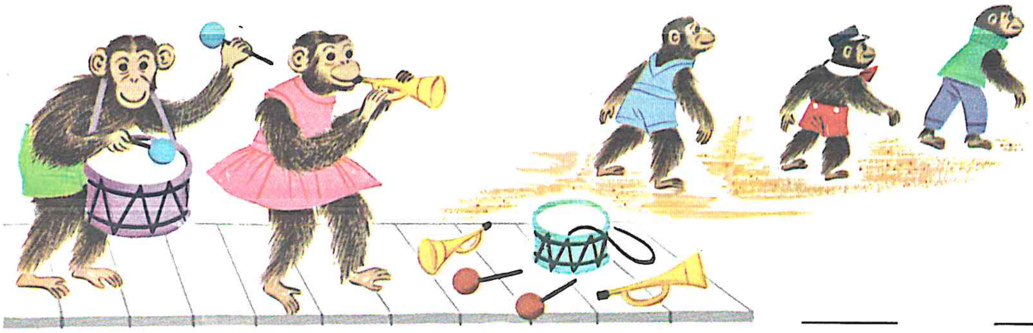

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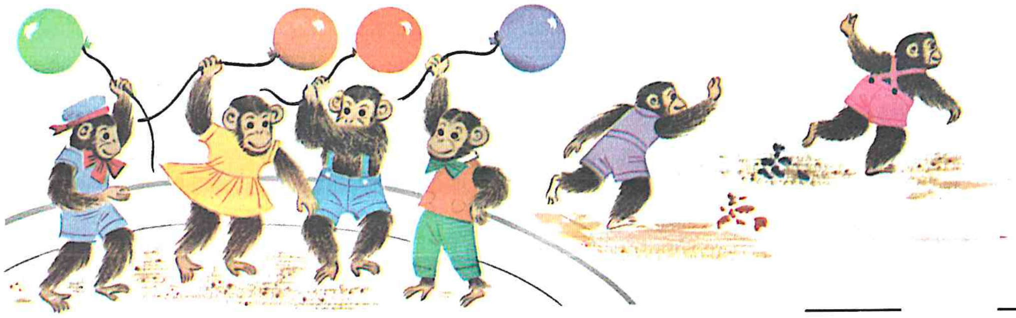

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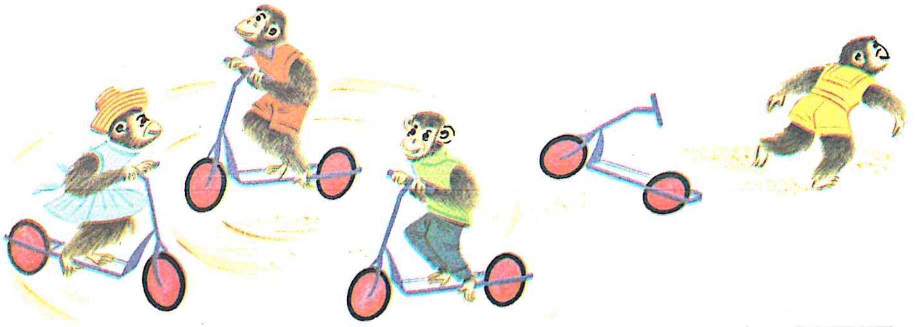

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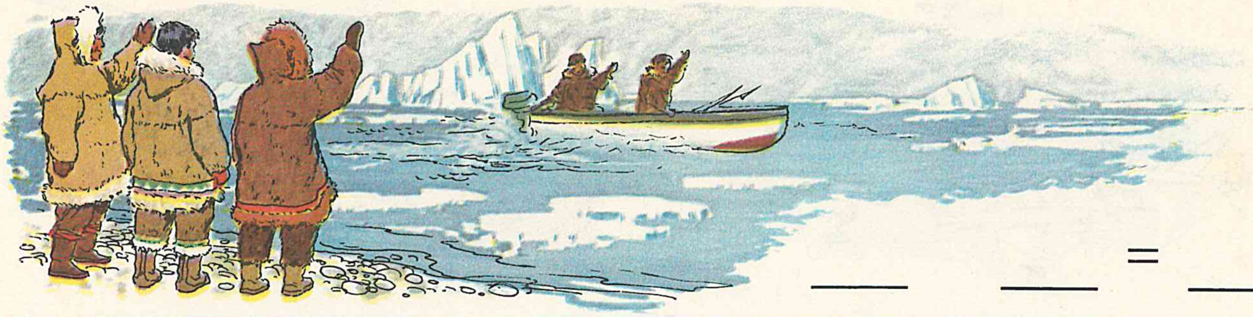

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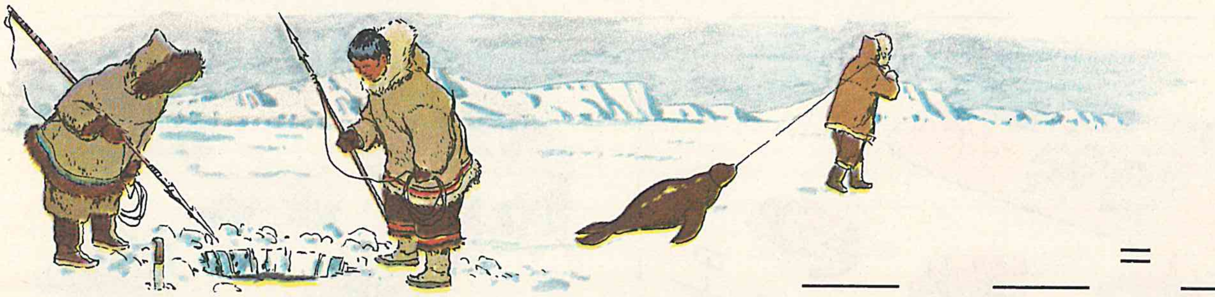

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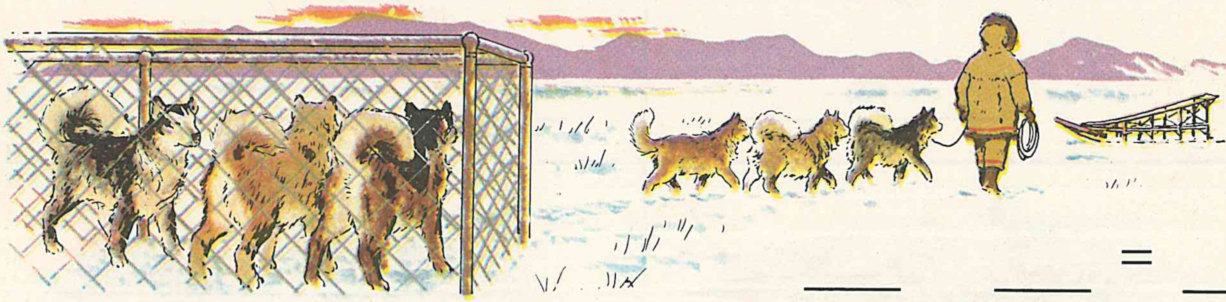

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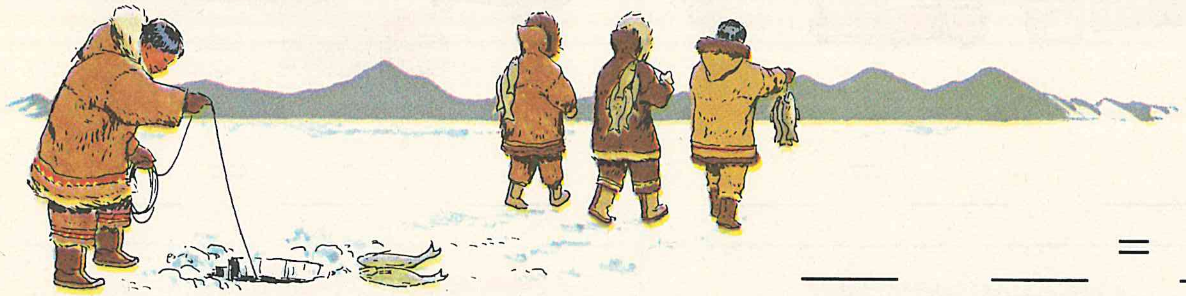

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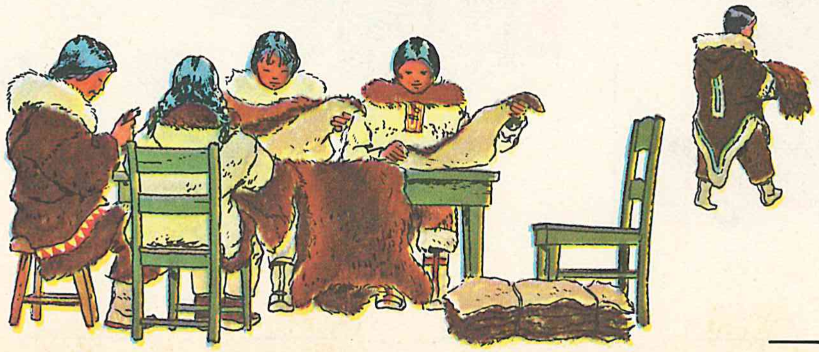

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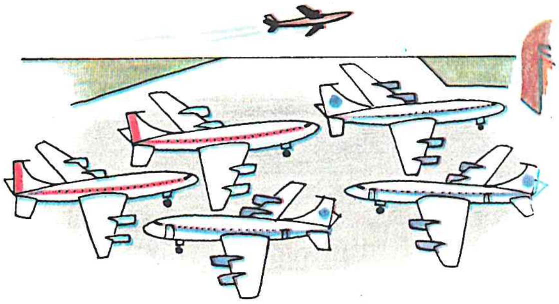

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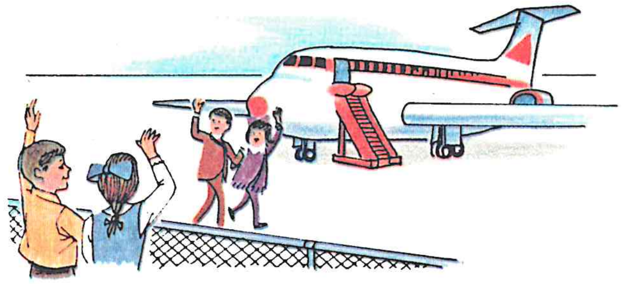

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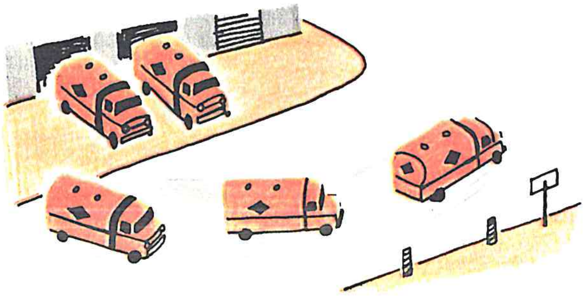

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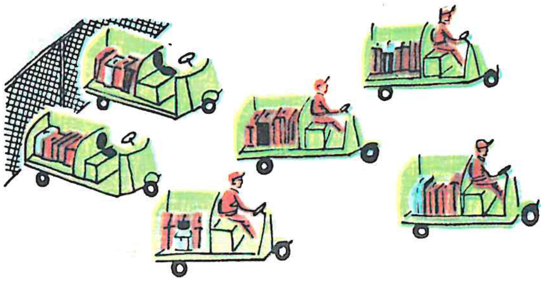

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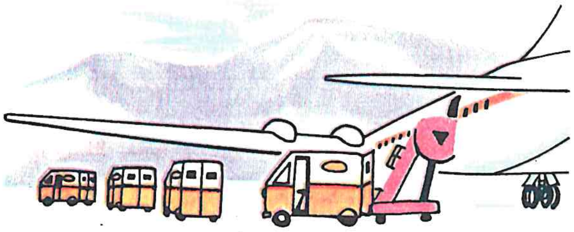

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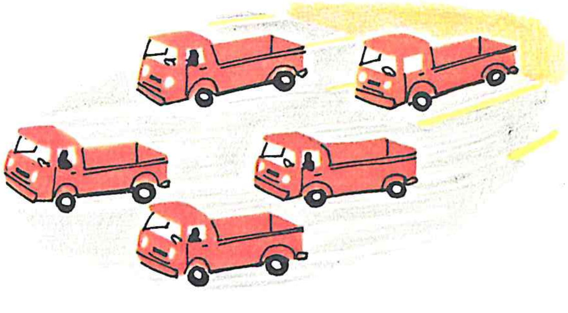

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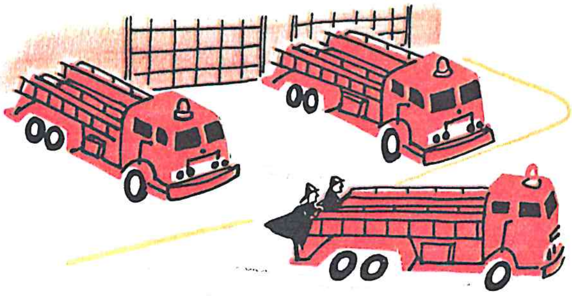

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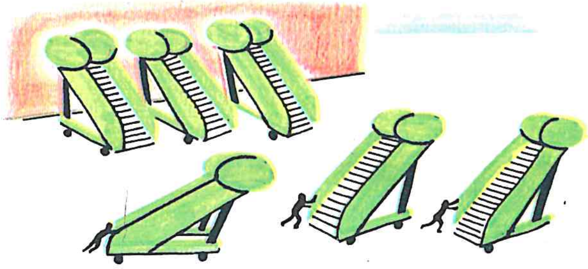

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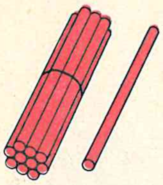

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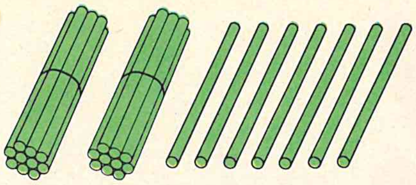

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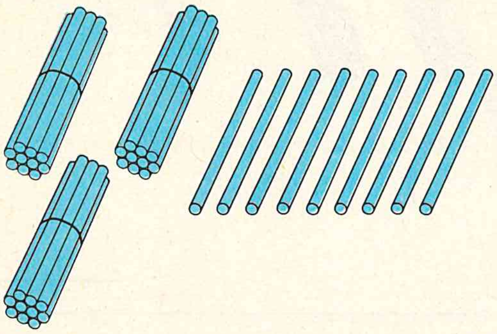

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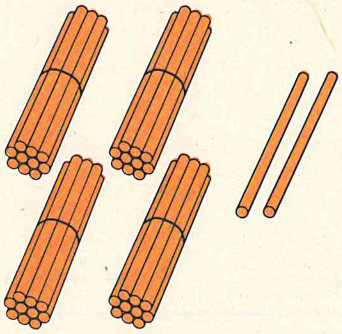

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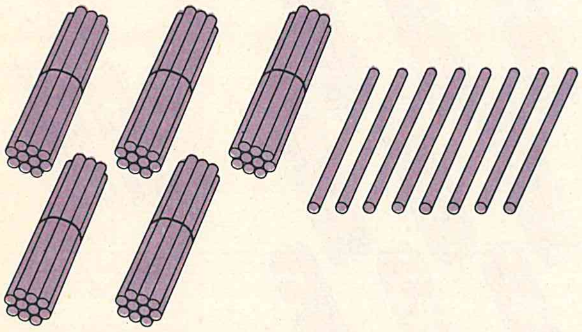

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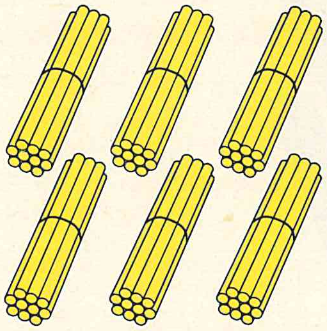

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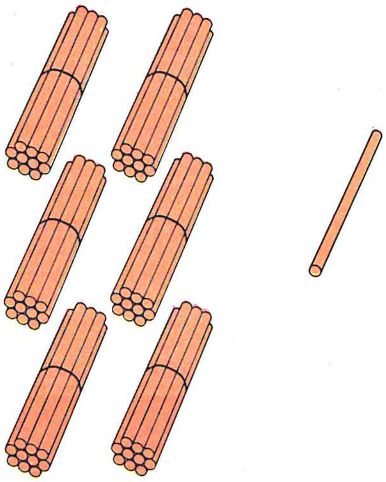

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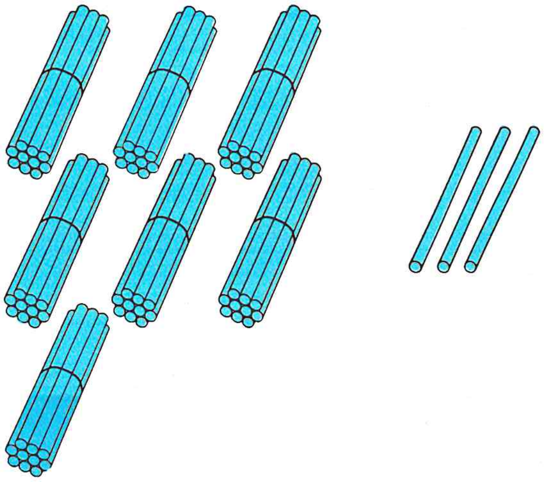

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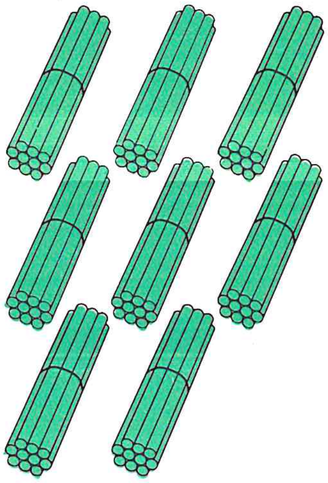

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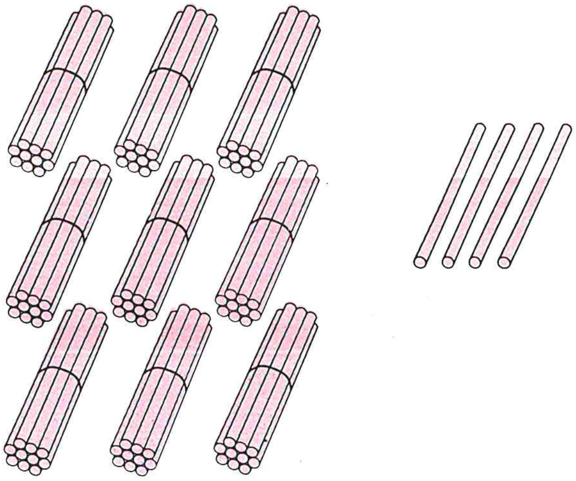

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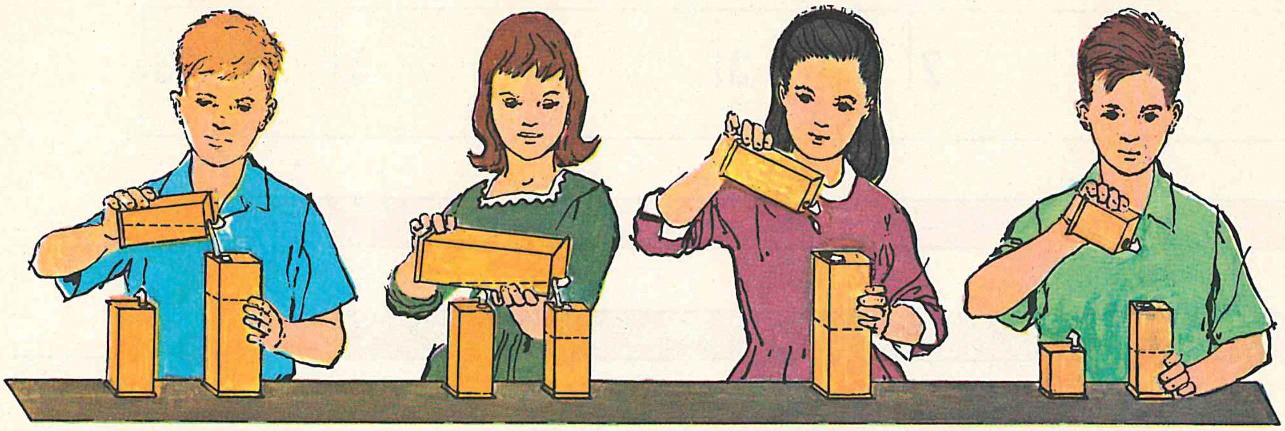

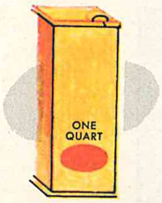

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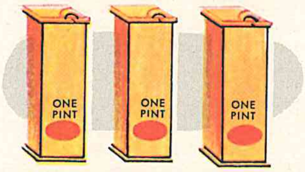
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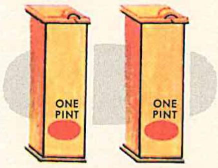
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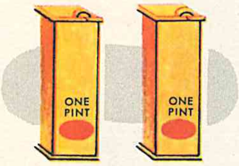
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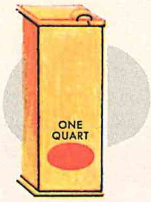

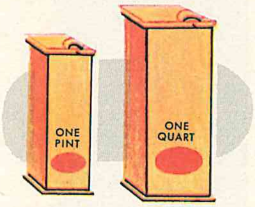
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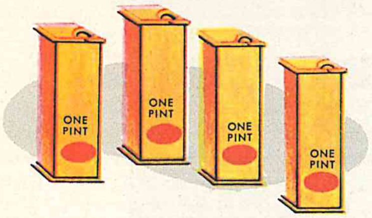
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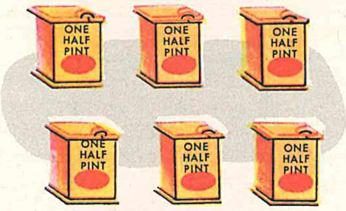
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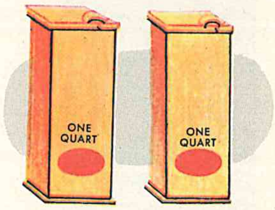
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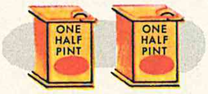
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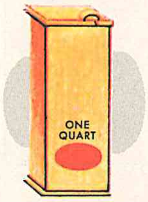

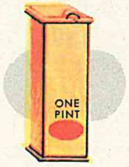

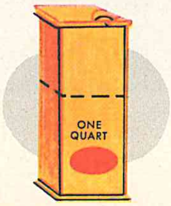

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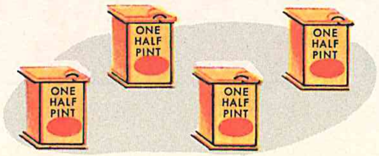
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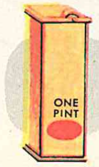

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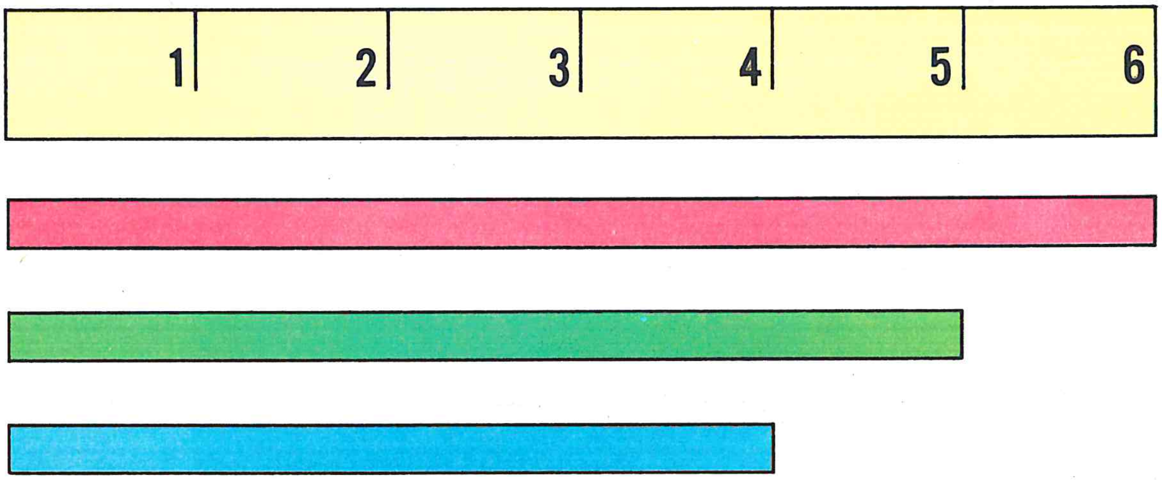

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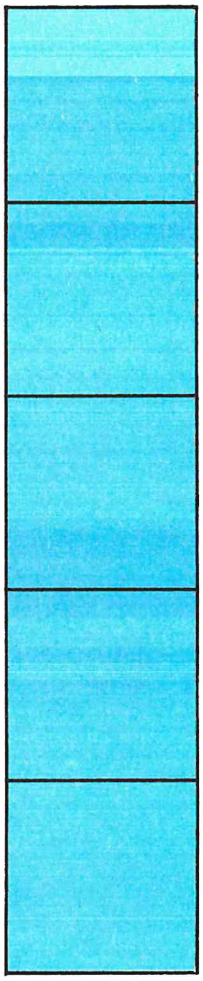

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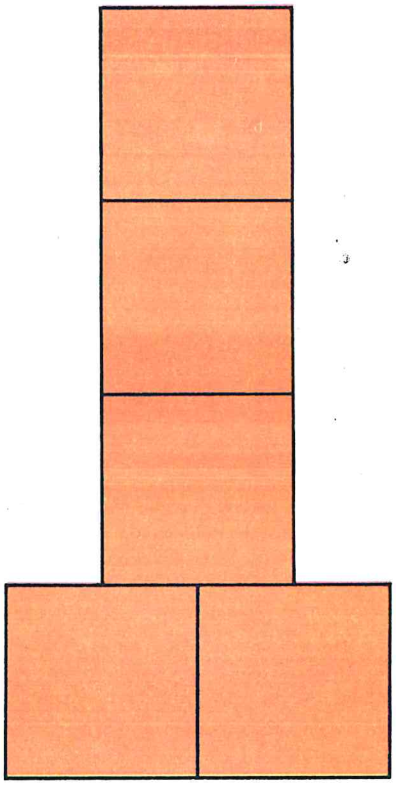

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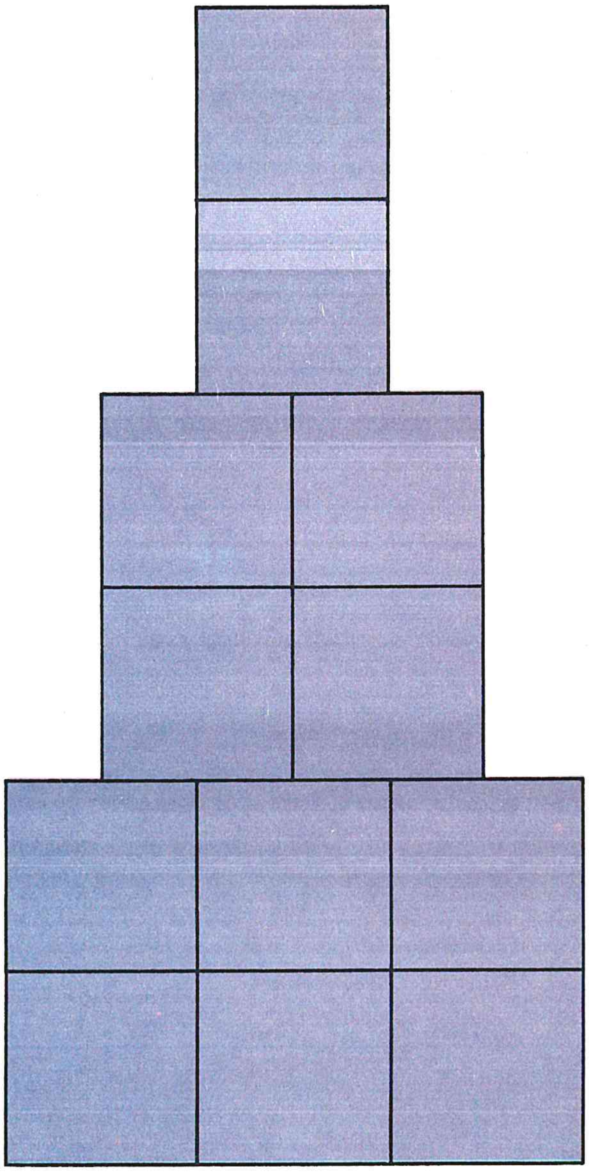

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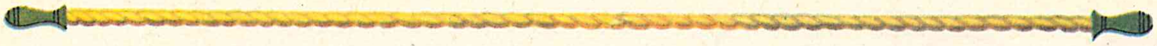

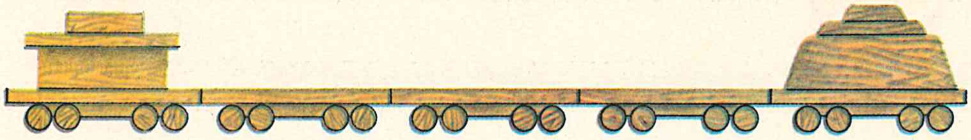

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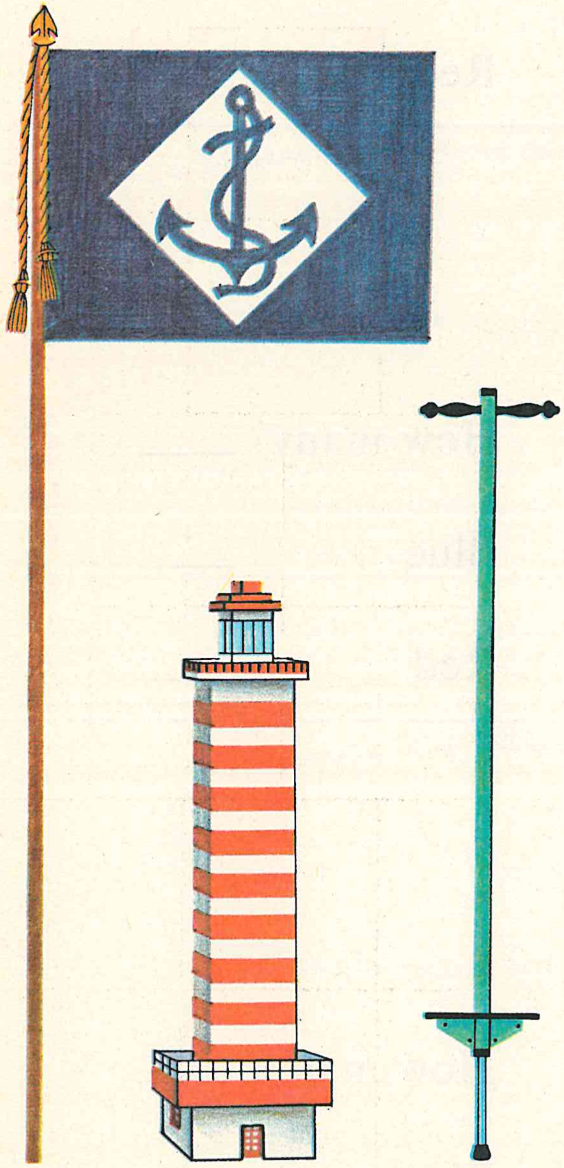

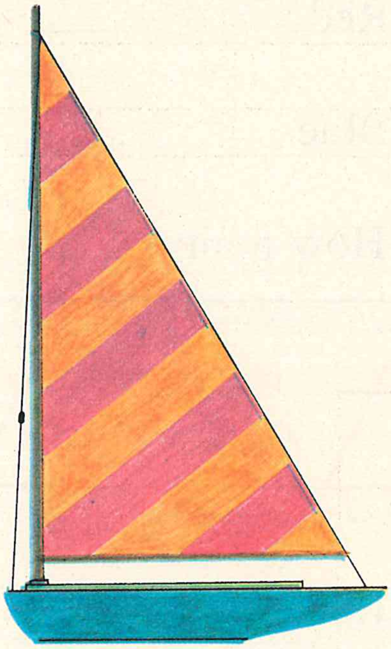

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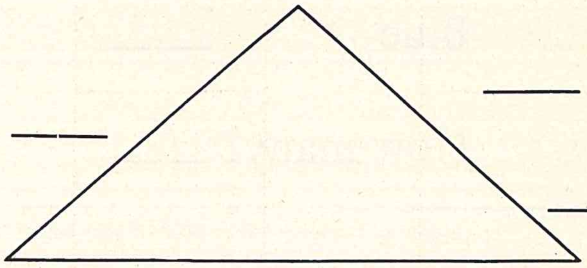

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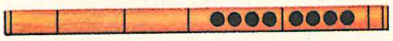

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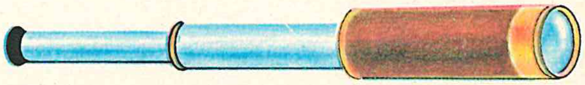

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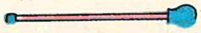

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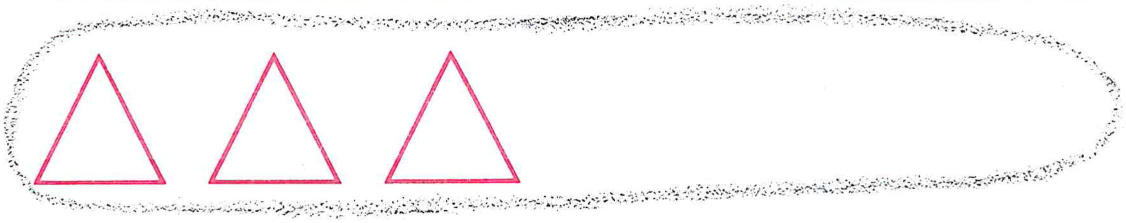

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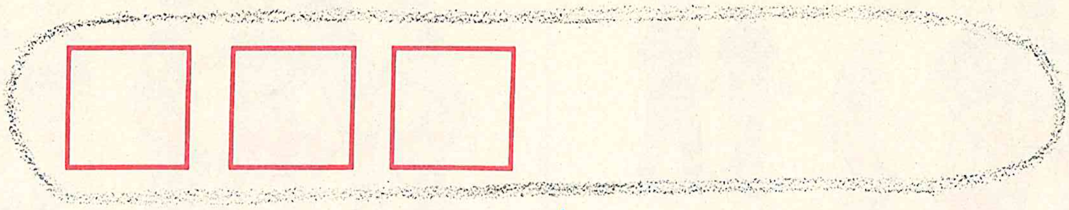

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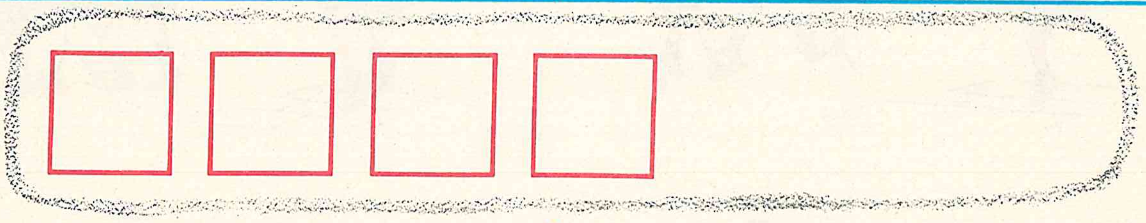

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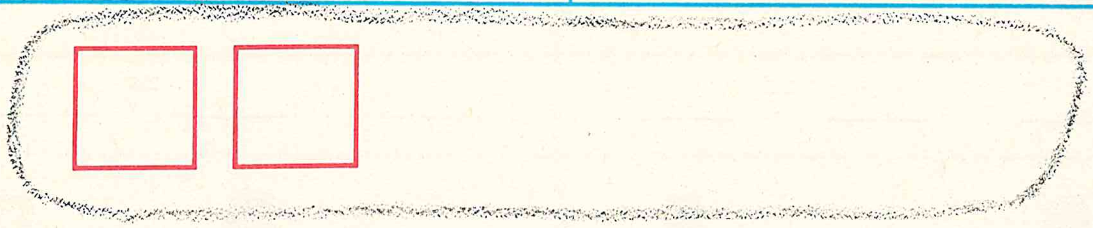

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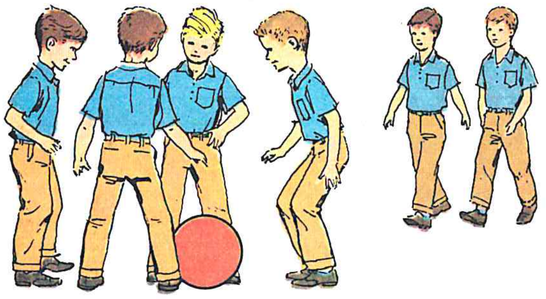

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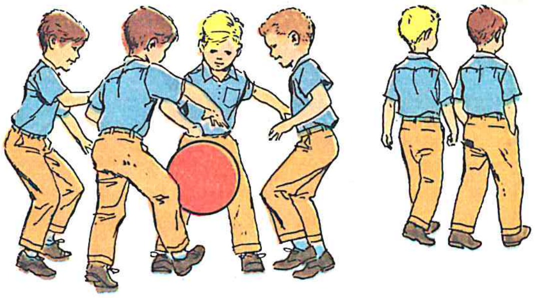

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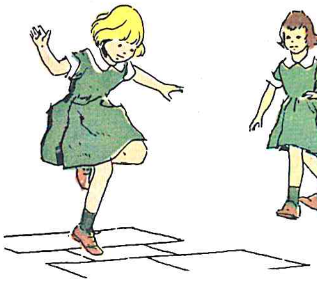

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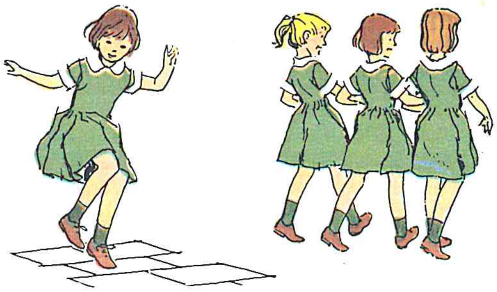

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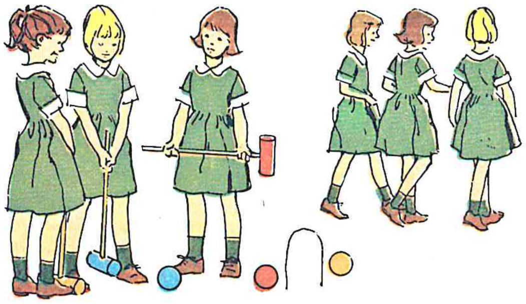

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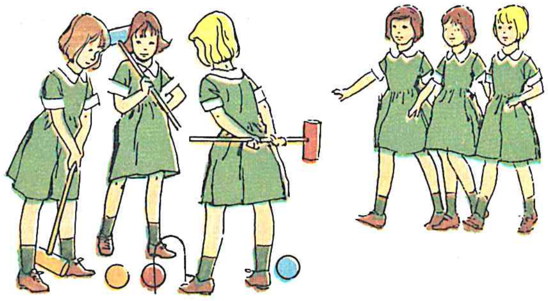

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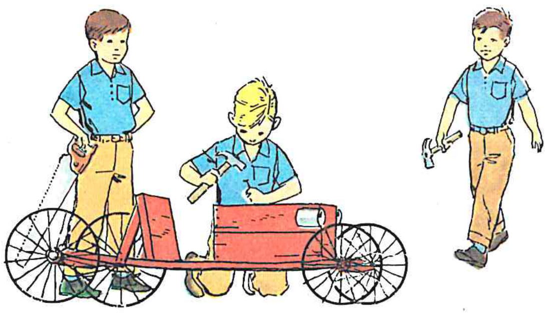

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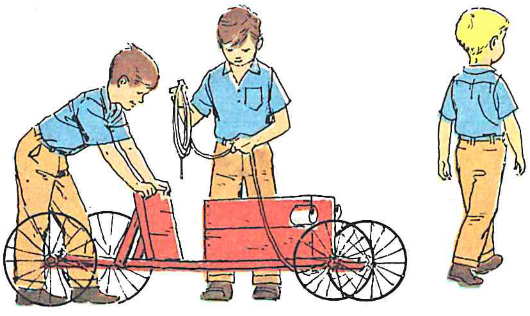

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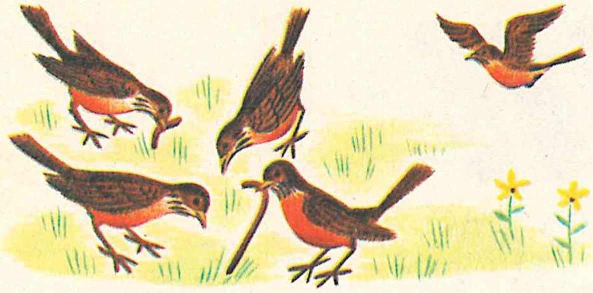

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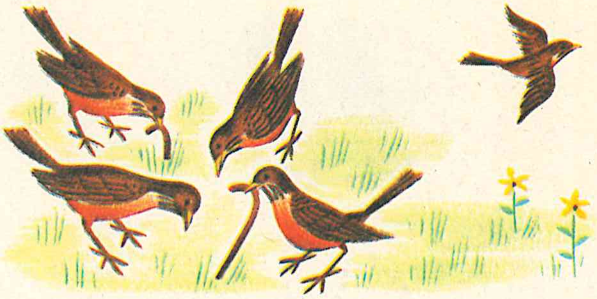

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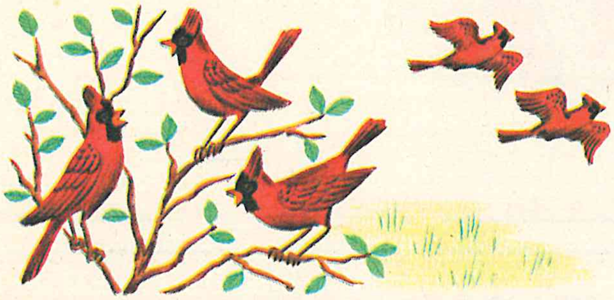

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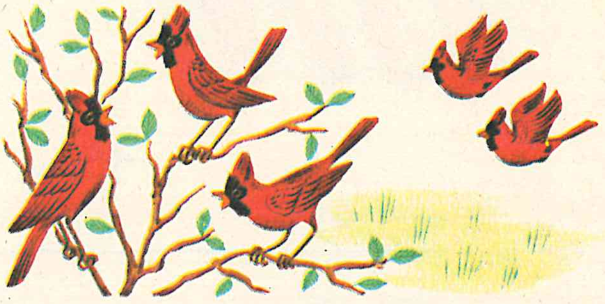

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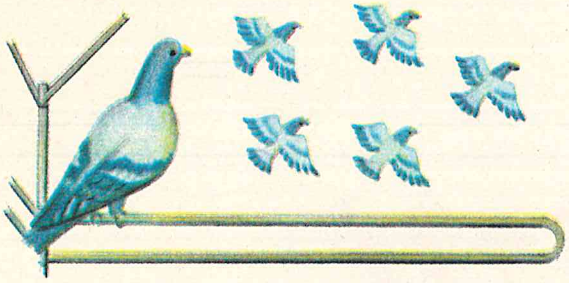

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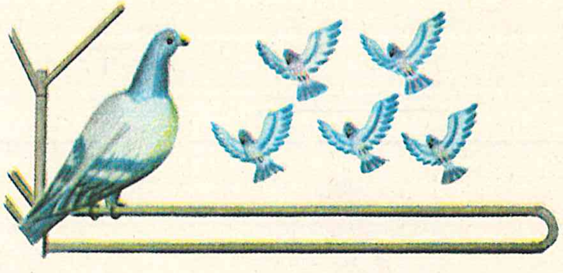

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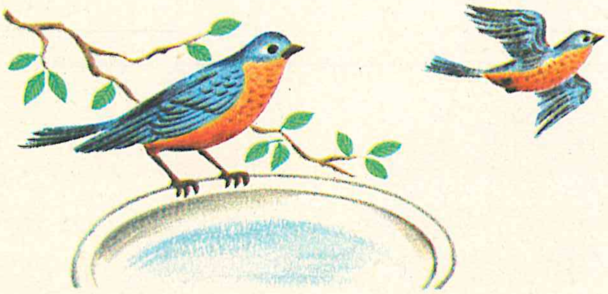

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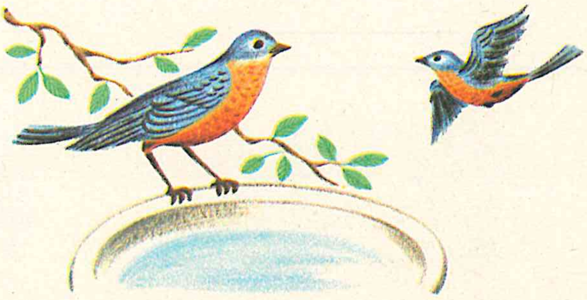

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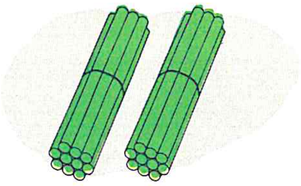

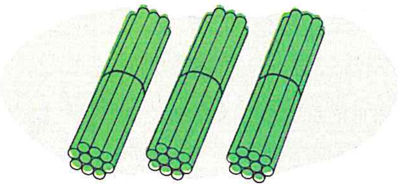

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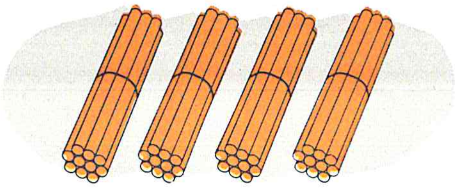

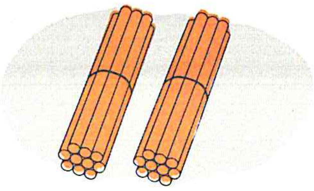

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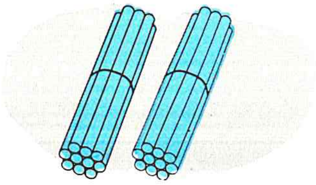

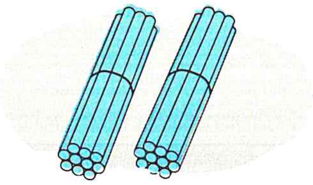

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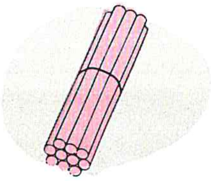

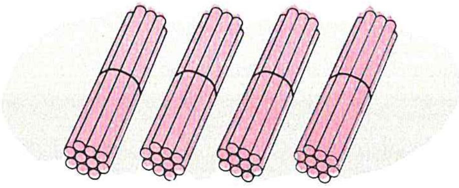

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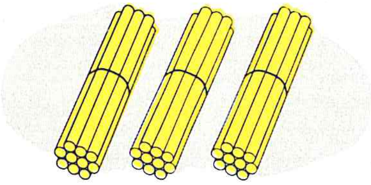

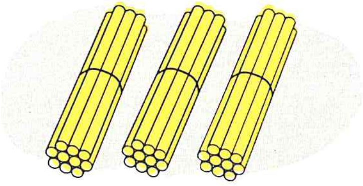

______ + ______ = ______

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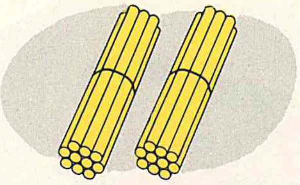
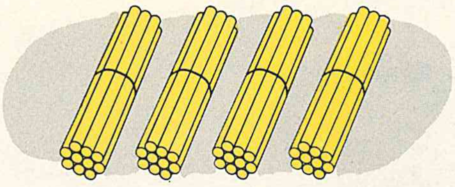

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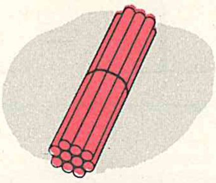
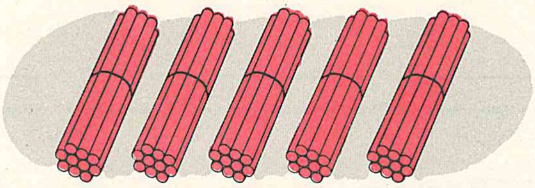

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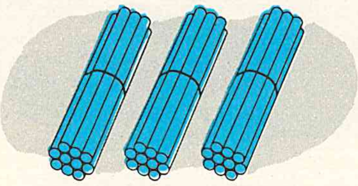
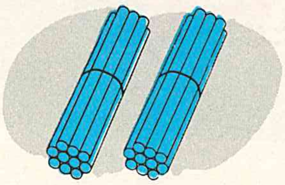

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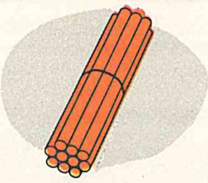
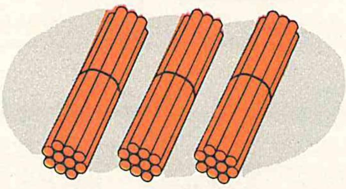

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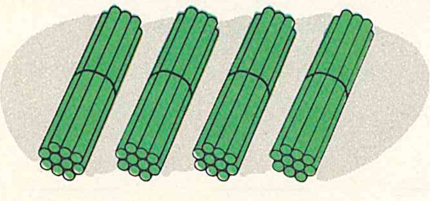
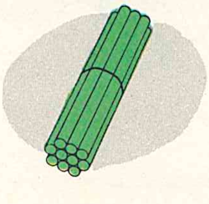
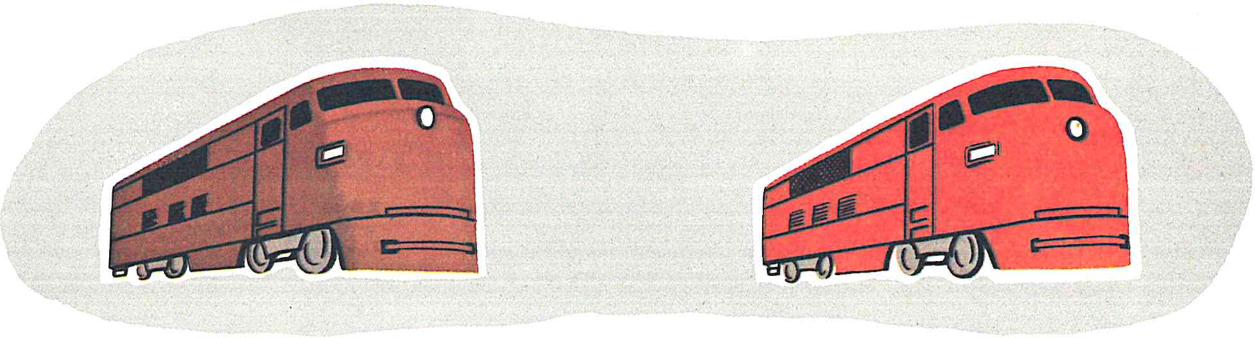
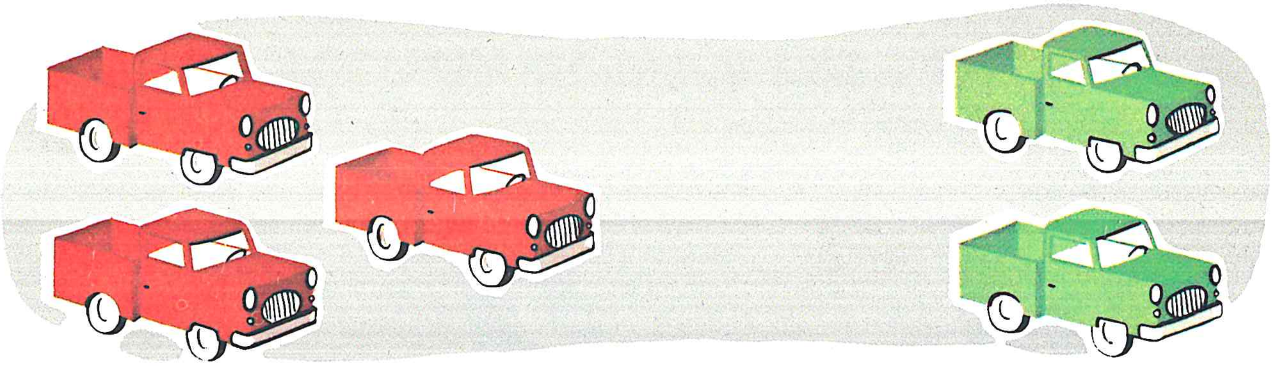



______ + ______ = ______

NAME ______________________________

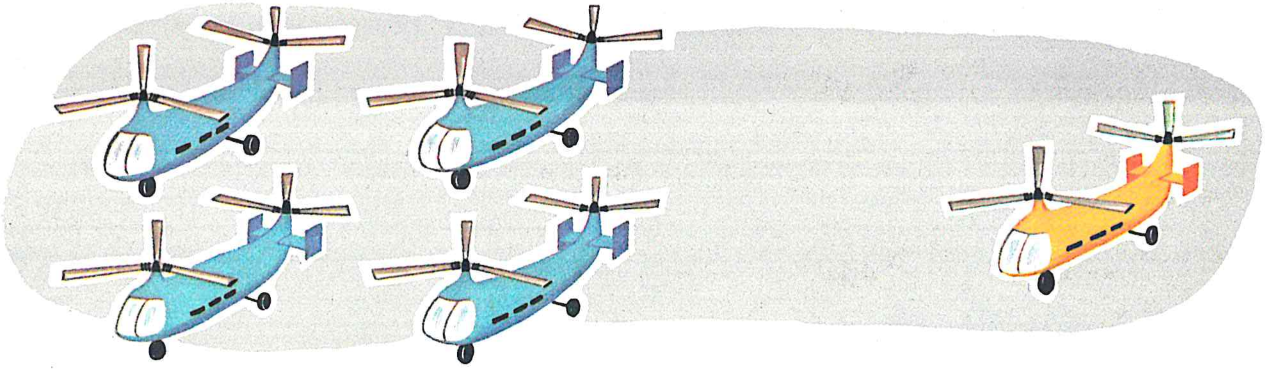


1 + ___ = ___ ___ − 1 = ___



3 + ___ = ___ 2 + ___ = ___

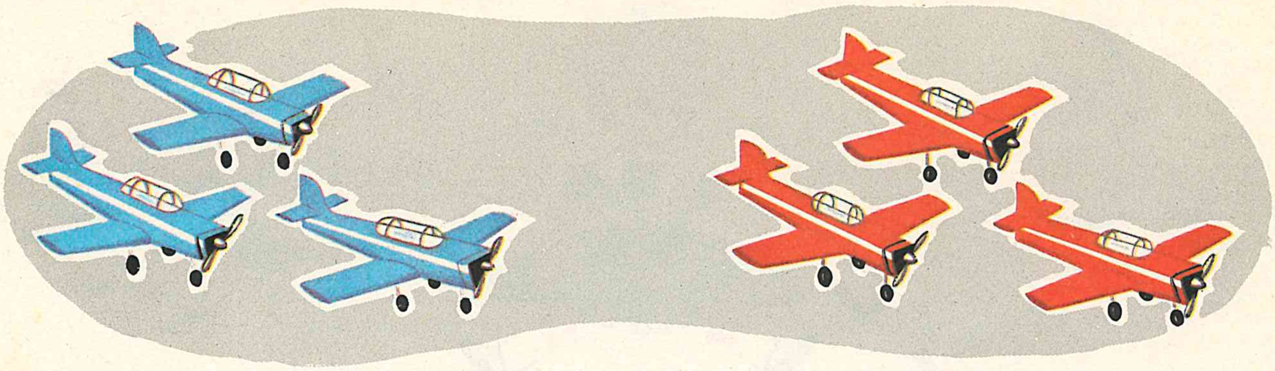
___ − 2 = ___ ___ − 3 = ___



4 + ___ = ___ 1 + ___ = ___

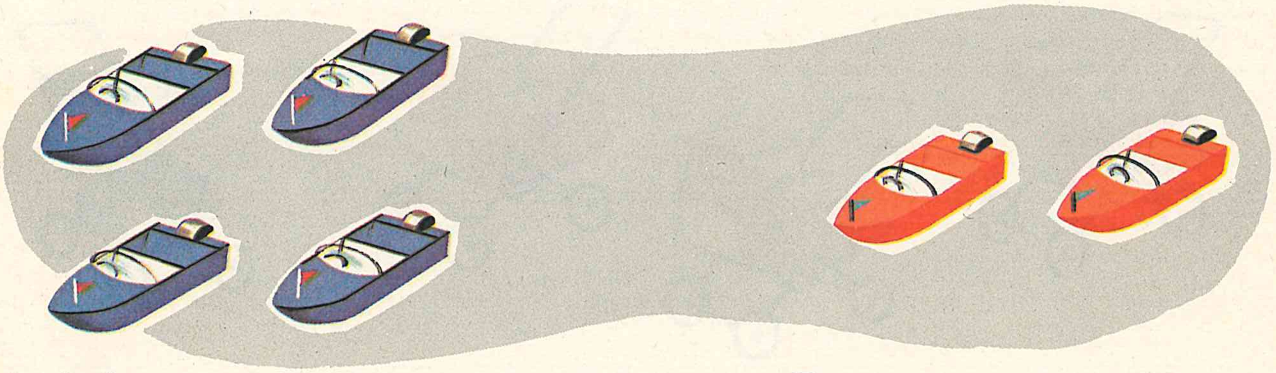
___ − 1 = ___ ___ − 4 = ___

NAME ______________________________



3 + ___ = ___

___ − 3 = ___

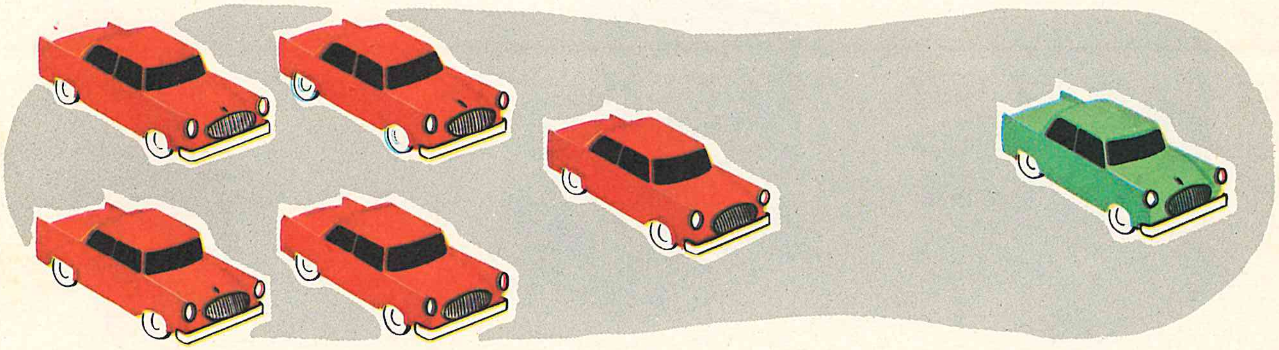


4 + ___ = ___

___ − 2 = ___

2 + ___ = ___

___ − 4 = ___



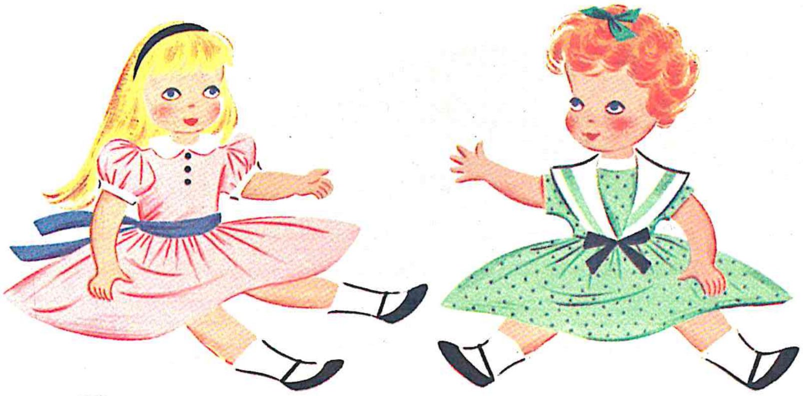
5 + ___ = ___

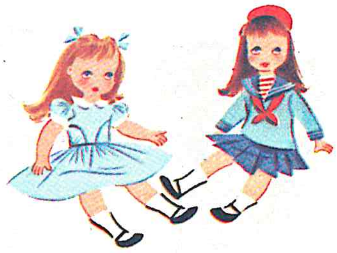
___ − 1 = ___

1 + ___ = ___

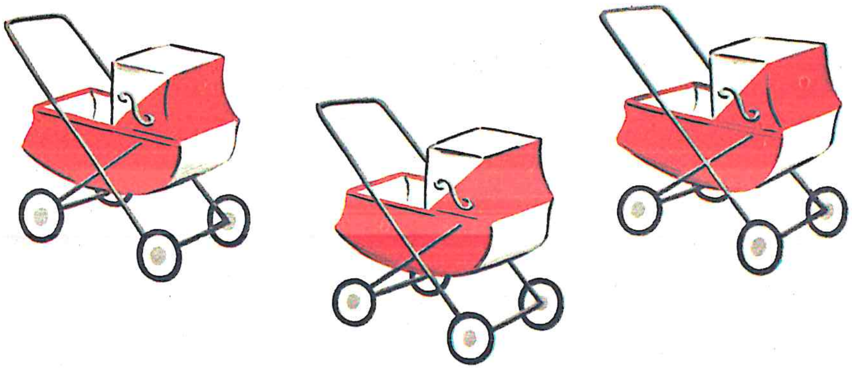
___ − 5 = ___

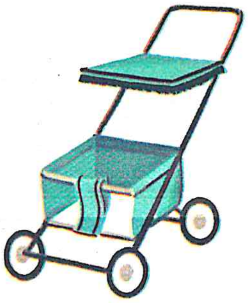
NAME ________________________________





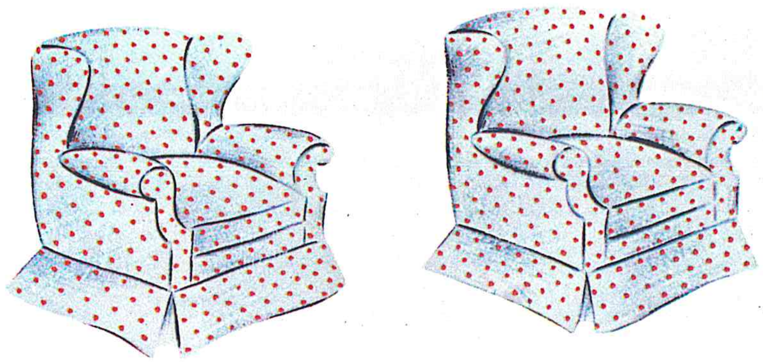
2 + ___ = ___   ___ − 2 = ___

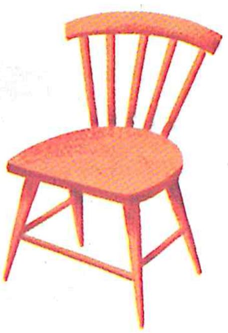




3 + ___ = ___   1 + ___ = ___

___ − 1 = ___   ___ − 3 = ___

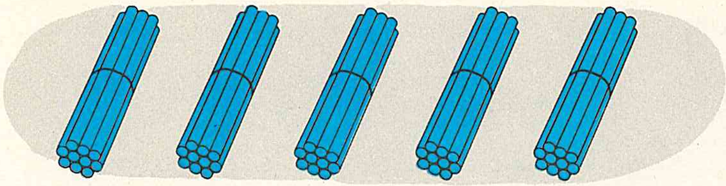




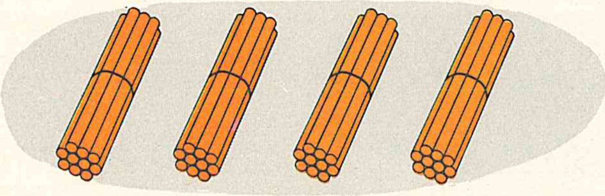
2 + ___ = ___   1 + ___ = ___

___ − 1 = ___   ___ − 2 = ___

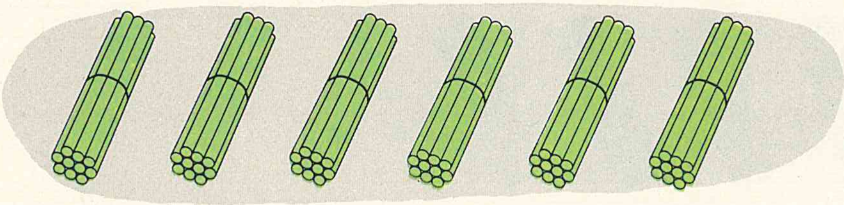
NAME ____________________



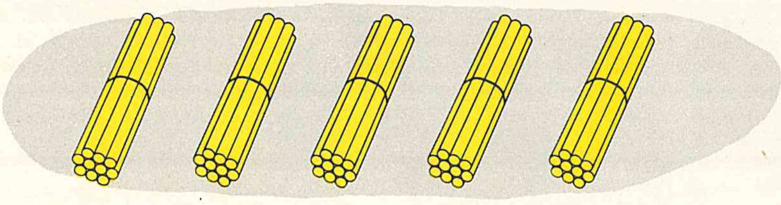
50 − 20 = ______



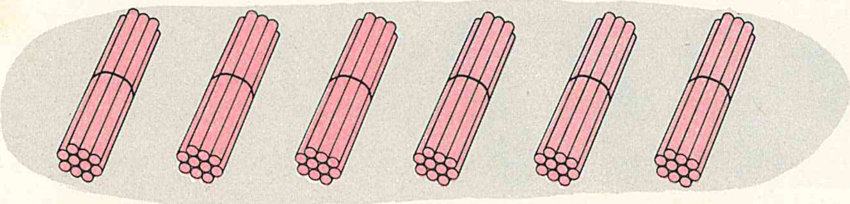
______ − 30 = ______



______ − 40 = ______

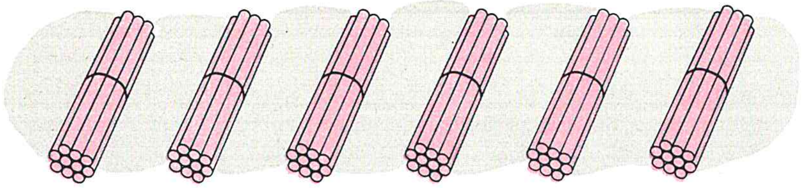


______ − 10 = ______

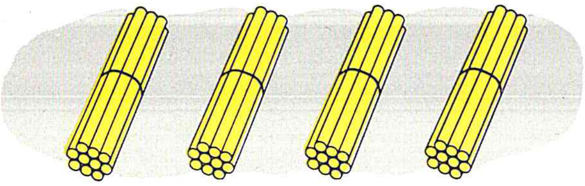


______ − 30 = ______

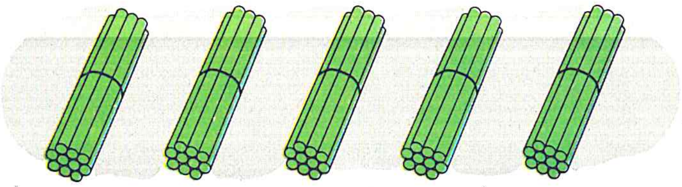
NAME ______________________________



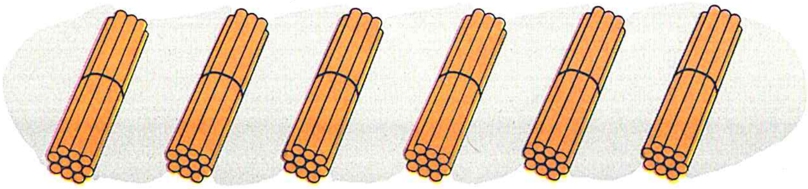
______ − 10 = ______



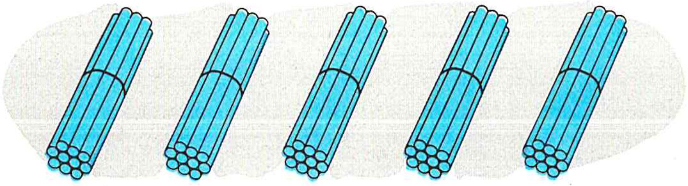
______ − 20 = ______



______ − 30 = ______

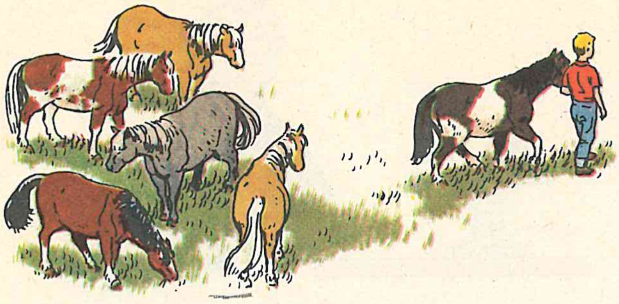


______ − 20 = ______

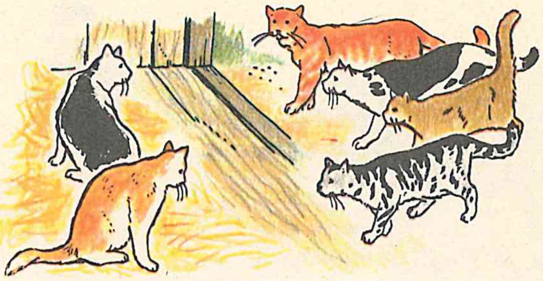


______ − 40 = ______

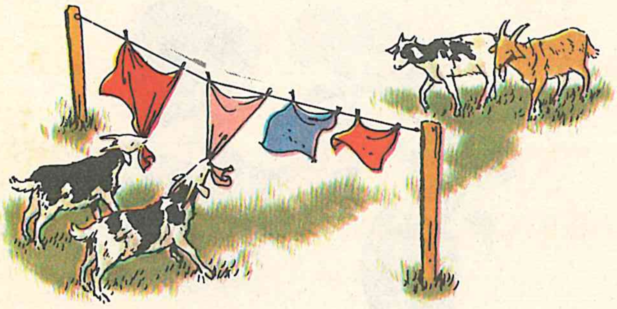
NAME ____



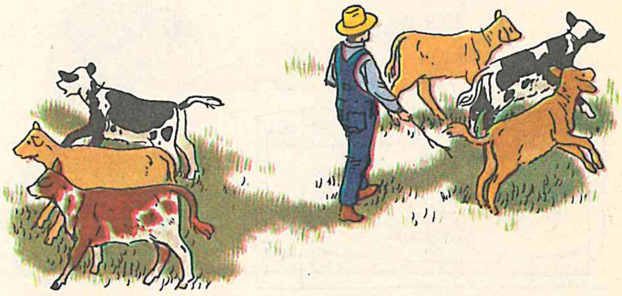
____ ____ = ____



____ ____ = ____



____ ____ = ____



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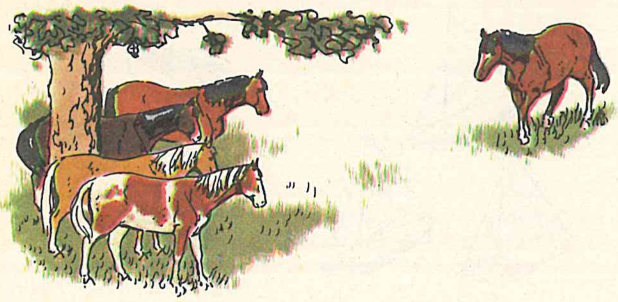

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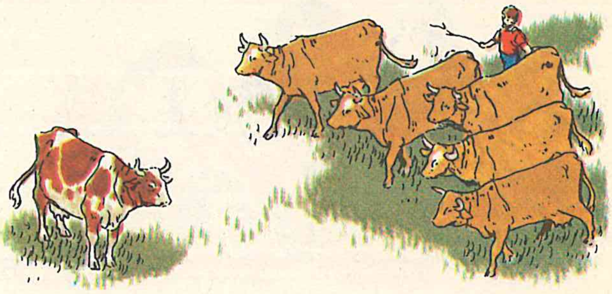

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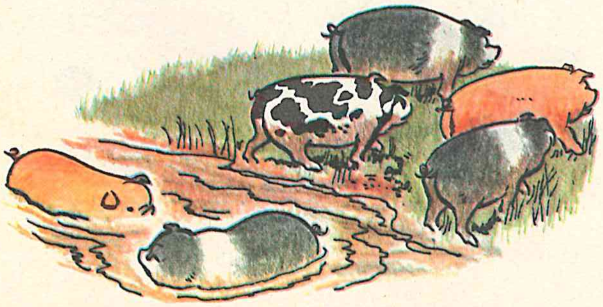

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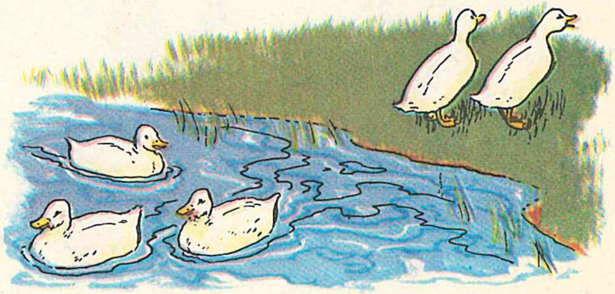
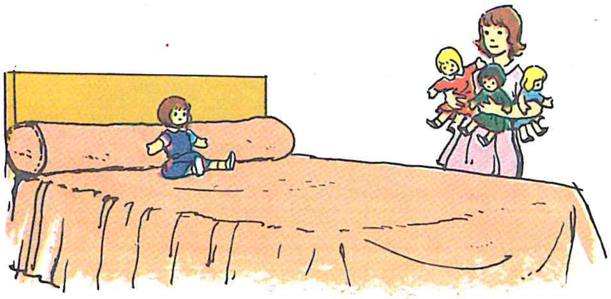


____ ____ = ____

NAME ________________________________



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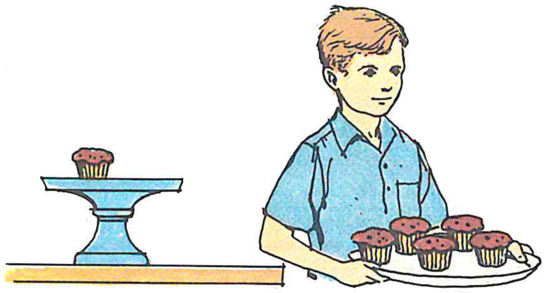

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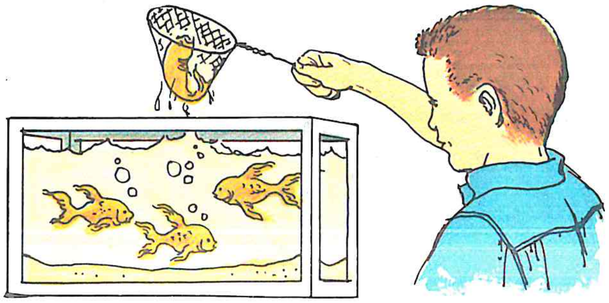
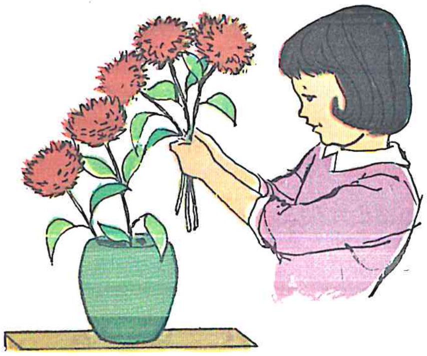
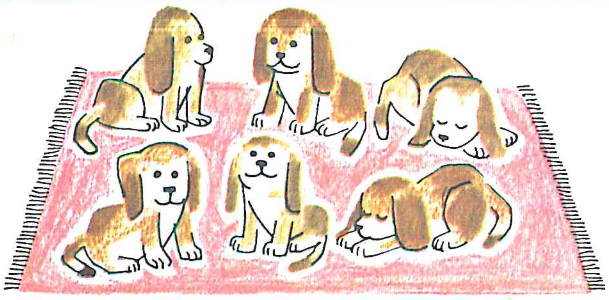


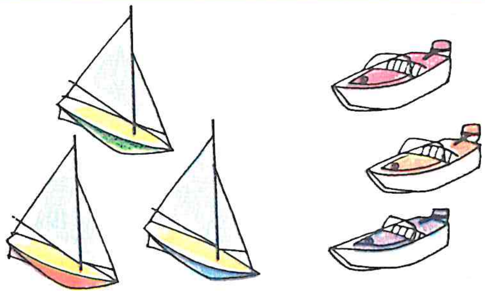
____ ____ = ____



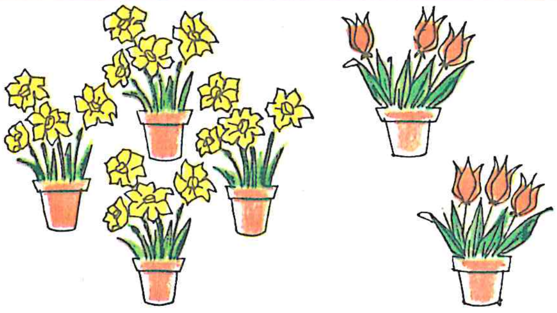
____ ____ = ____



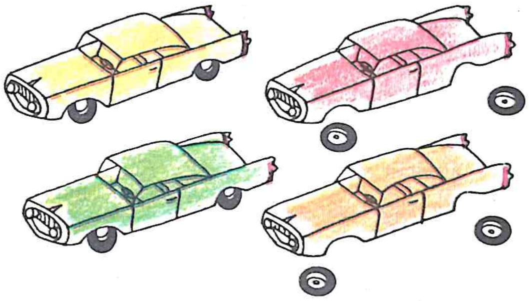
6 − 2 = ____



3 + 3 = ____



4 + 2 = ____



4 − 2 = ____

NAME ____

2 + 3 = ☐
3 + 1 = ☐
2 + 1 = ☐
1 + 1 = ☐
2 + 2 = ☐
1 + 4 = ☐
1 + 3 = ☐
3 + 3 = ☐
1 + 2 = ☐

4 − 2 = ☐
6 − 3 = ☐
5 − 1 = ☐
5 − 3 = ☐
2 − 1 = ☐
6 − 2 = ☐
6 − 5 = ☐
4 − 3 = ☐
6 − 1 = ☐

5 + 1 = ☐
3 − 2 = ☐
4 − 1 = ☐
2 + 4 = ☐
4 + 1 = ☐
5 − 2 = ☐
3 + 2 = ☐
6 − 4 = ☐
4 + 2 = ☐
3 − 1 = ☐
5 − 4 = ☐
1 + 5 = ☐

NAME ____

$1 + \square = 4$

$6 - \square = 5$

$1 + \square = 5$

$6 - \square = 2$

$1 + \square = 3$

$3 + \square = 5$

$5 - \square = 3$

$6 - \square = 3$

$5 - \square = 4$

$6 - \square = 4$

$4 - \square = 1$

$2 + \square = 4$

$4 + \square = 6$

$1 + \square = 6$

$5 - \square = 1$

$20 + 30 = \square$

$40 - 10 = \square$

$60 - 50 = \square$

$50 - 30 = \square$

$30 - 10 = \square$

$10 + 10 = \square$

$30 + 30 = \square$

$20 - 10 = \square$

$40 + 20 = \square$

$20 + 40 = \square$

$20 + \square = 30$

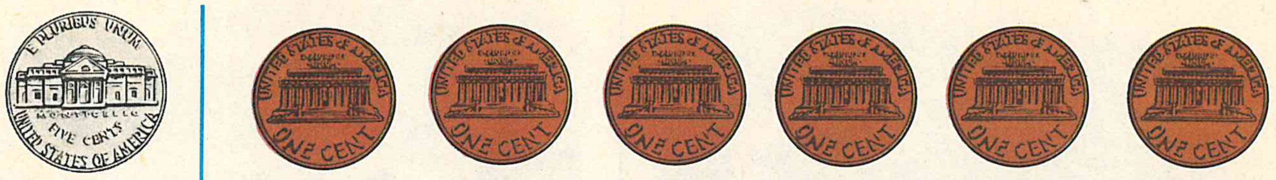
$50 + 10 = \square$

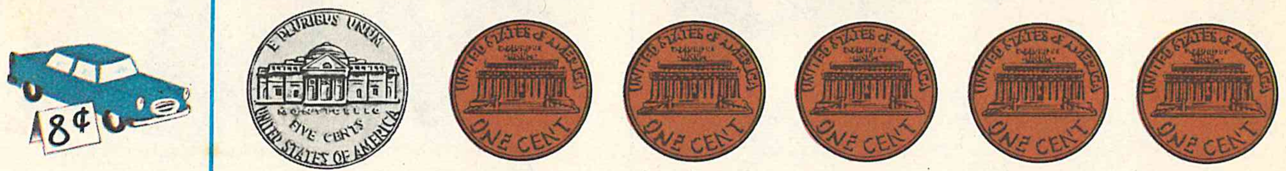
$40 - \square = 20$

$30 - 20 = \square$

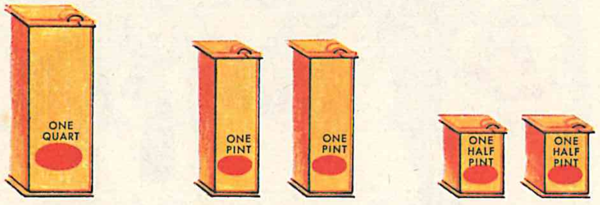
$40 + \square = 50$

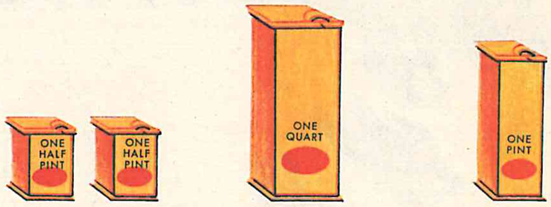
NAME ____

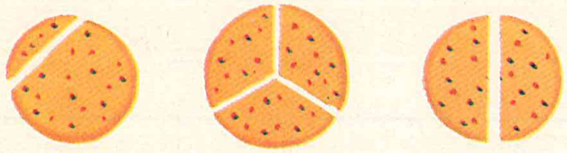

E PLURIBUS UNUM
MONTICELLO
FIVE CENTS
UNITED STATES OF AMERICA
UNITED STATES OF AMERICA
E PLURIBUS UNUM
ONE CENT

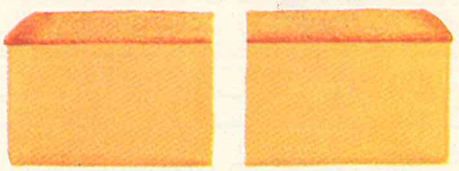

8¢
E PLURIBUS UNUM
MONTICELLO
FIVE CENTS
UNITED STATES OF AMERICA
UNITED STATES OF AMERICA
E PLURIBUS UNUM
ONE CENT

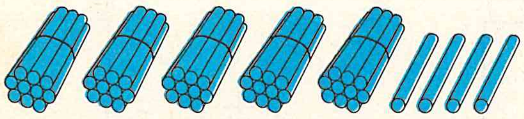
1	2	3	4	5	6


ONE QUART
ONE PINT
ONE PINT
ONE HALF PINT
ONE HALF PINT


ONE HALF PINT
ONE HALF PINT
ONE QUART
ONE PINT







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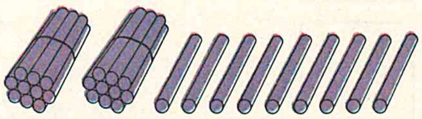

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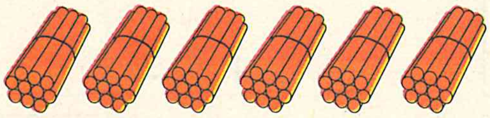

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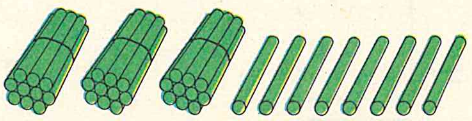

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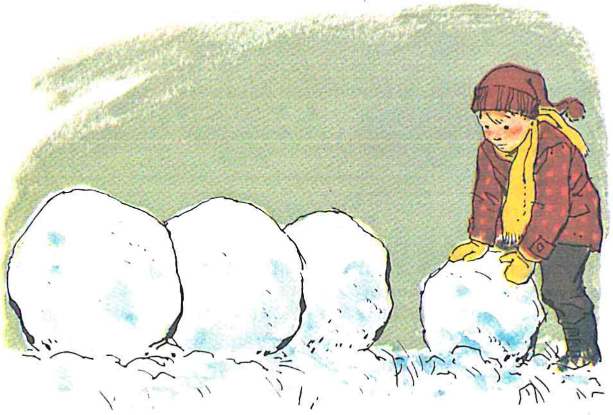
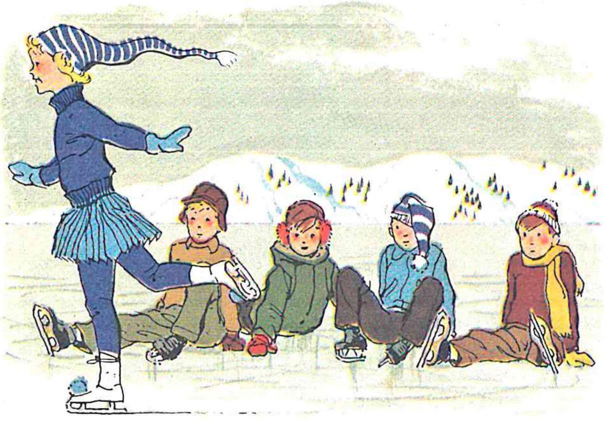
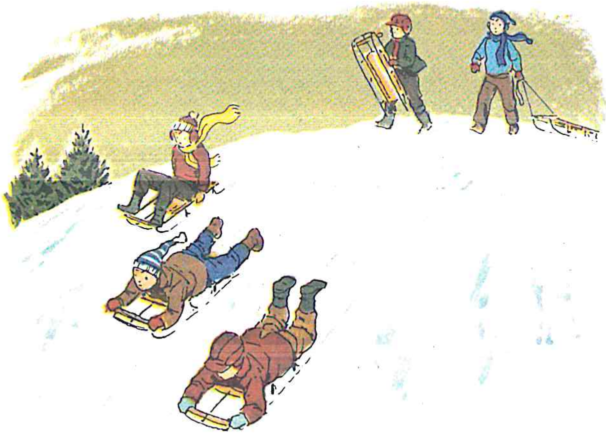
NAME ____



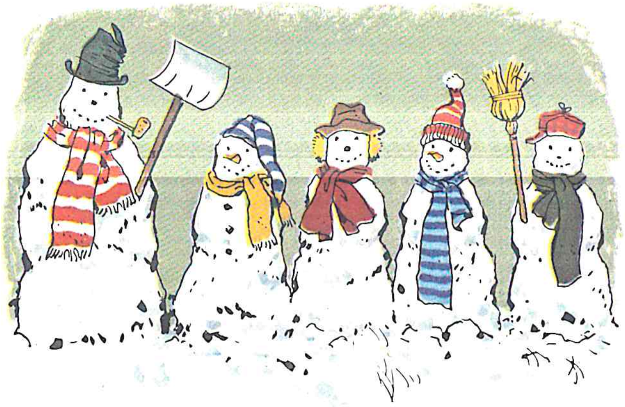
____ ____ = ____



____ ____ = ____



____ ____ = ____



____ ____ = ____

1 + 3 = ☐

5 + 1 = ☐

2 + 1 = ☐

2 + 3 = ☐

2 + 4 = ☐

4 + 2 = ☐

2 + 2 = ☐

1 + 4 = ☐

3 + 1 = ☐

1 + 2 = ☐

4 + 1 = ☐

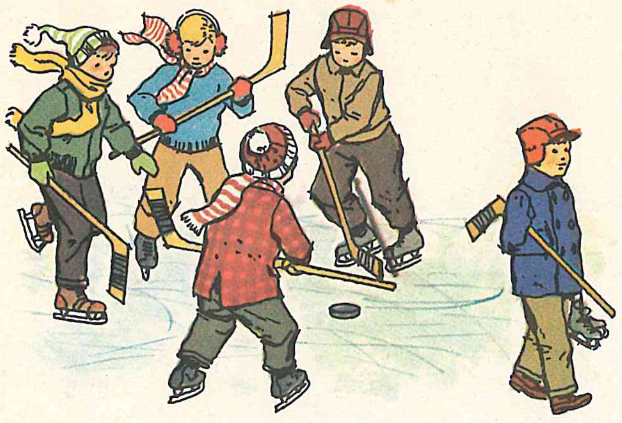
3 + 2 = ☐

1 + 1 = ☐

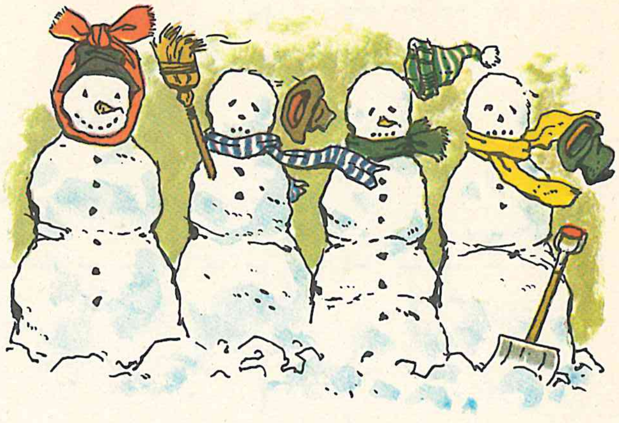
1 + 5 = ☐

3 + 3 = ☐

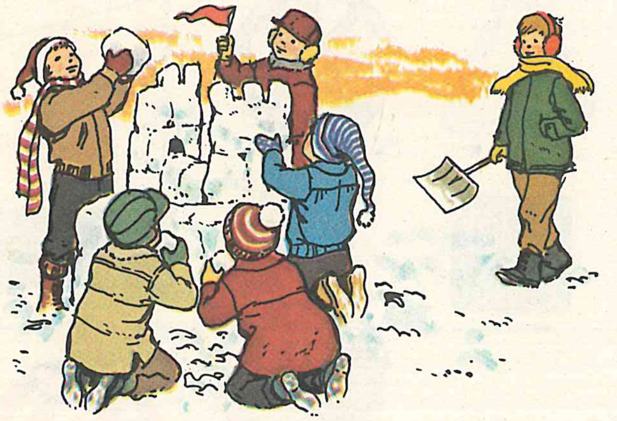
NAME ______________________________



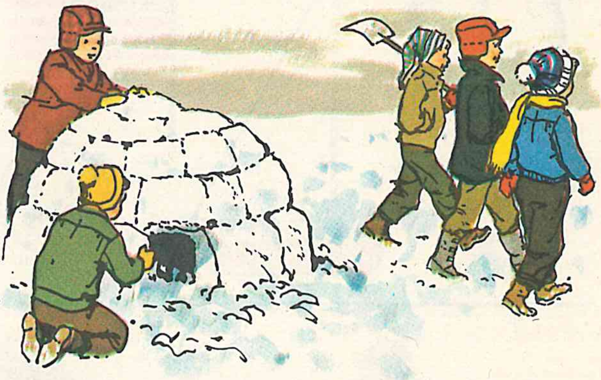
____ ____ = ____



____ ____ = ____



____ ____ = ____



____ ____ = ____

4 − 3 = ☐

6 − 1 = ☐

3 − 1 = ☐

5 − 3 = ☐

6 − 4 = ☐

6 − 2 = ☐

4 − 2 = ☐

5 − 4 = ☐

4 − 1 = ☐

3 − 2 = ☐

5 − 1 = ☐

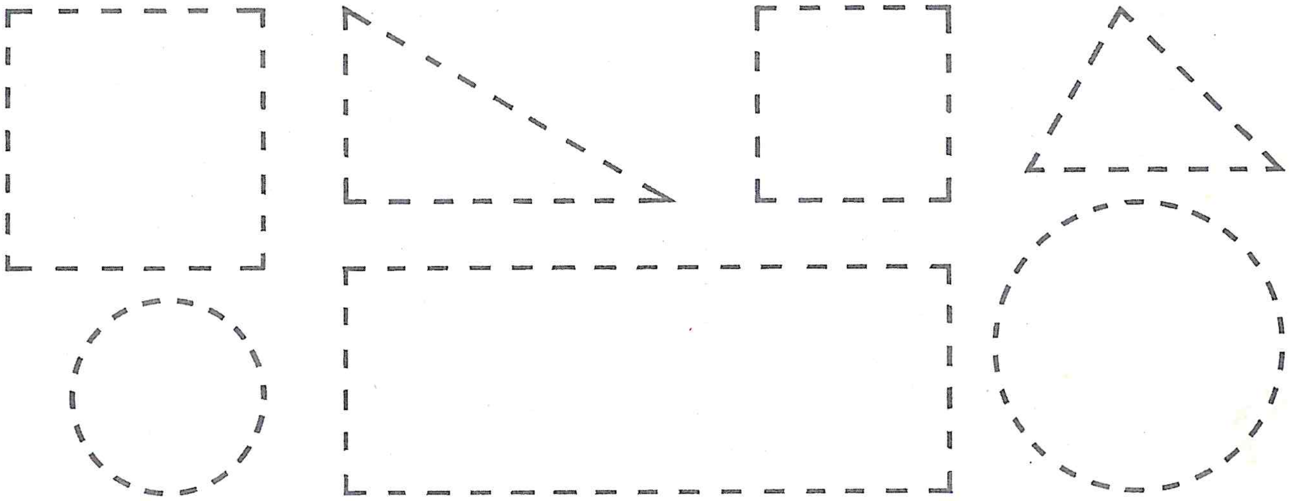
5 − 2 = ☐

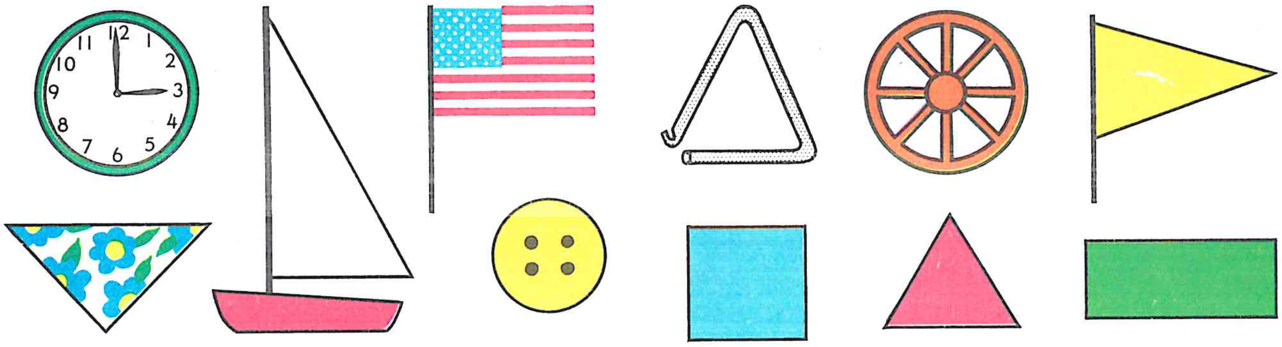
2 − 1 = ☐

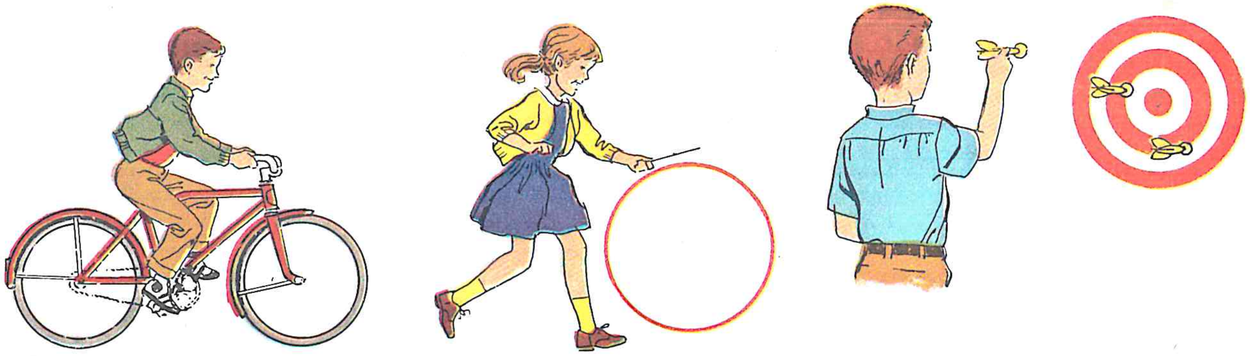
6 − 5 = ☐

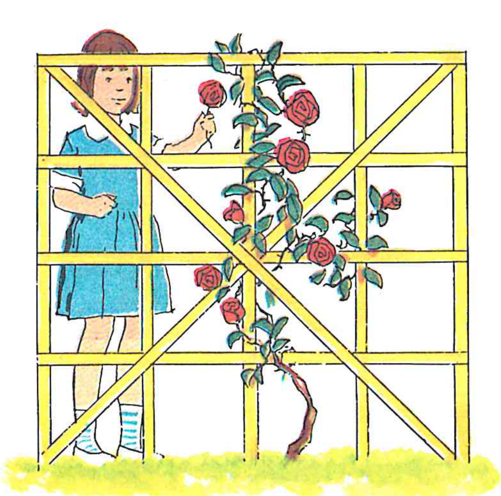
6 − 3 = ☐

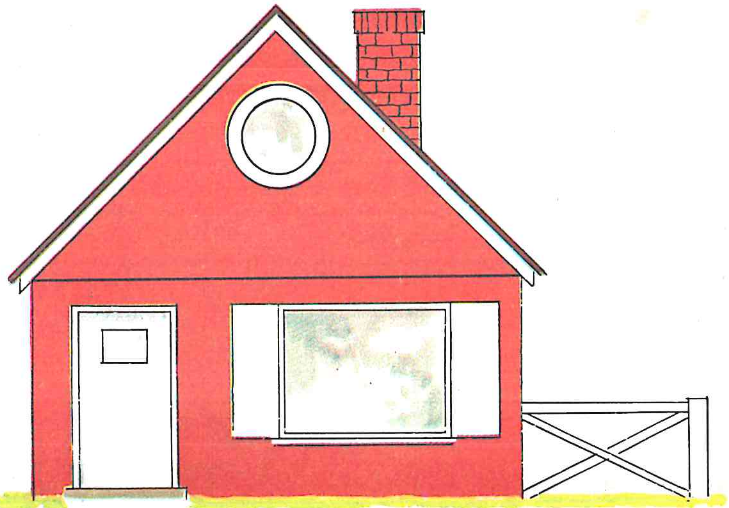
NAME ____________________



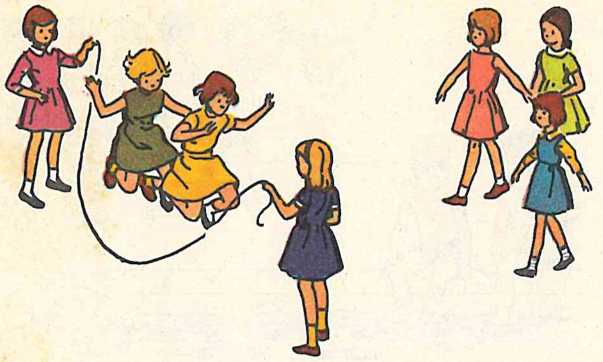

12
1
2
3
4
5
6
7
8
9
10
11



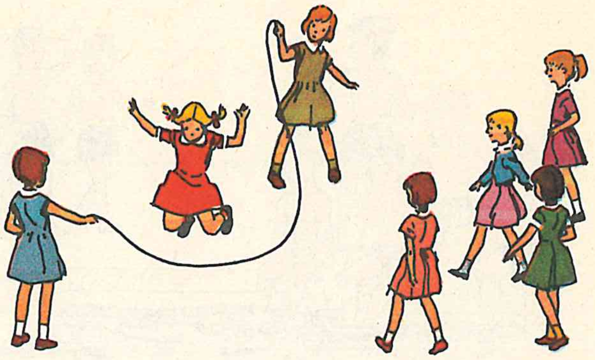




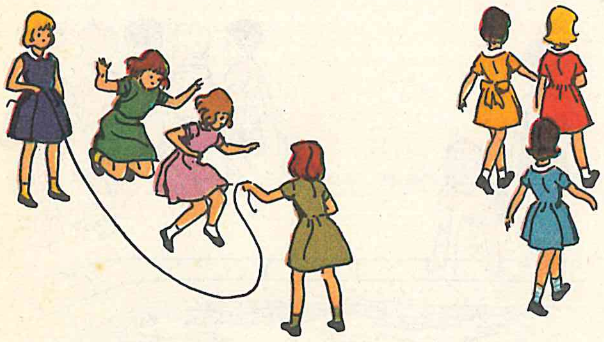
NAME ____



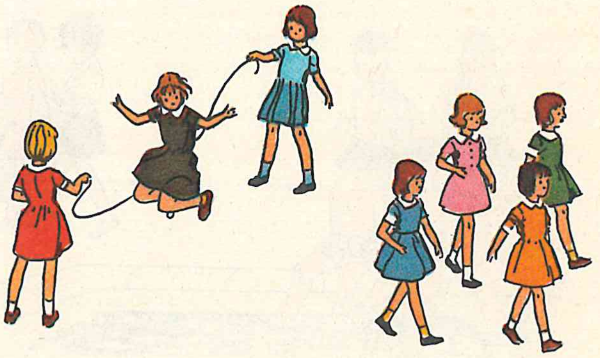
____ + ____ = ____



____ + ____ = ____



____ − ____ = ____



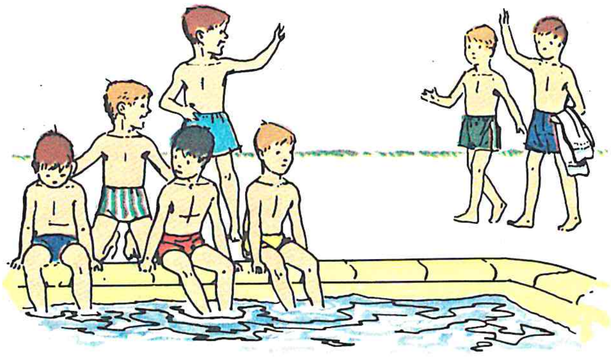
____ − ____ = ____

4	3	7	7	1	2	4
+ 3	+ 4	− 3	− 4	+ 4	+ 2	− 3

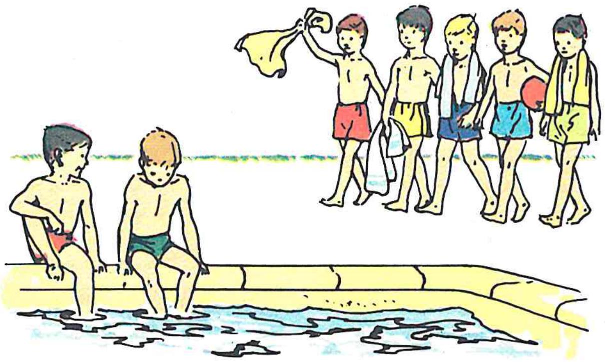
4	5	1	6	5	4	2
+ 2	− 1	+ 3	− 2	+ 1	− 1	+ 3

6	3	4	1	5	6	2
− 3	− 1	+ 1	+ 2	− 3	− 5	+ 1

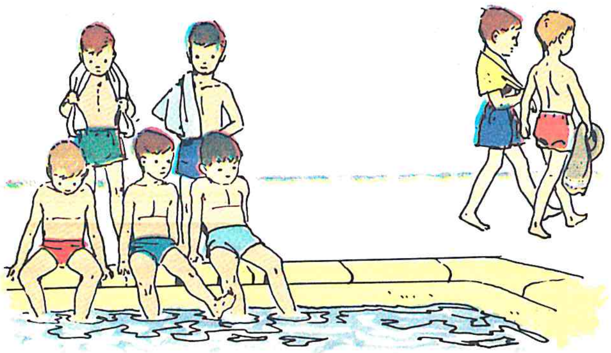
NAME ______________________________



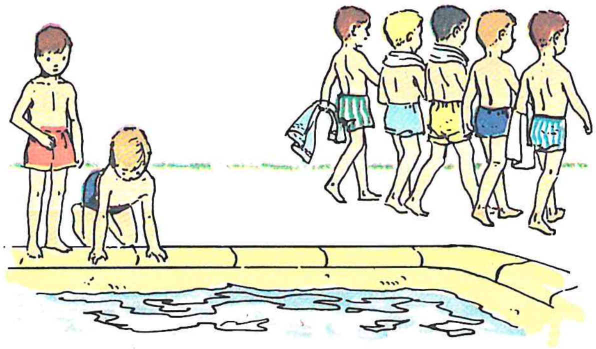
___ + ___ = ___



___ + ___ = ___



___ − ___ = ___



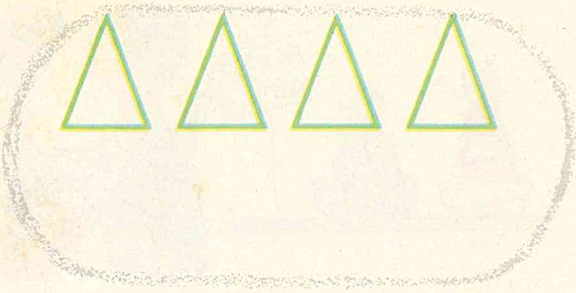
___ − ___ = ___

5	2	7	7	3	3	5
+2	+5	−2	−5	−2	+3	−2

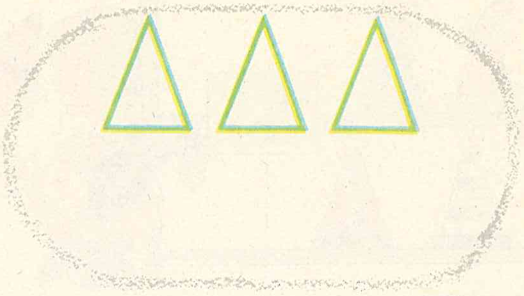
3	6	4	1	5	1	2
+1	−1	+3	+1	−4	+5	+4

7	4	3	7	6	2	3
−4	−2	+2	−3	−4	−1	+4

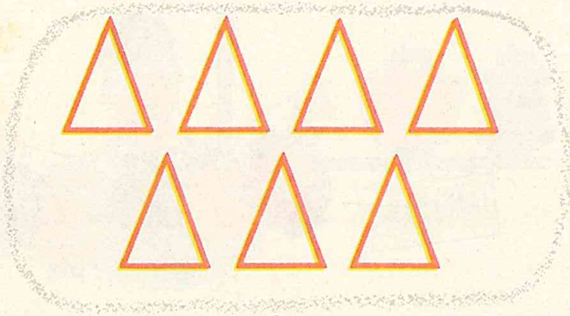
NAME ______________________________



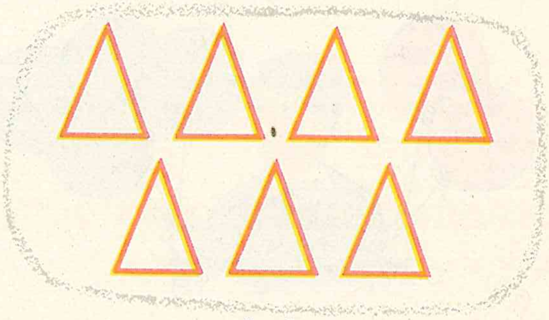
___ + ___ = 7



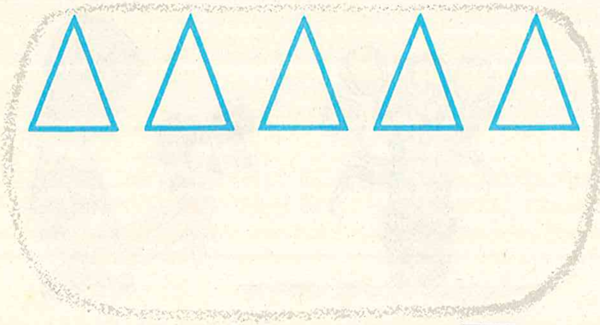
___ + ___ = 7



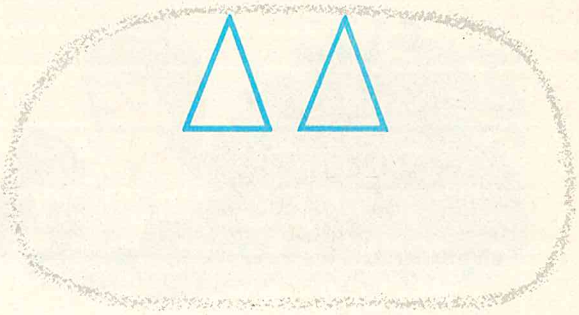
___ − 3 = ___



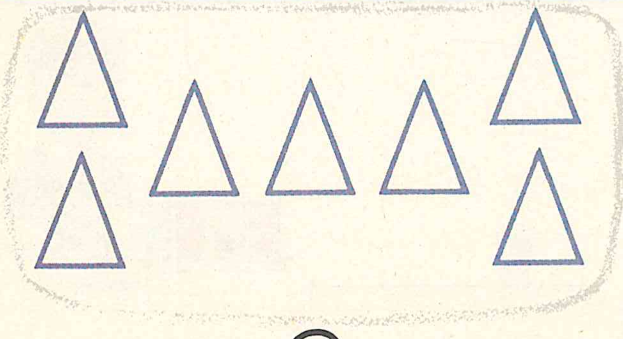
___ − 4 = ___



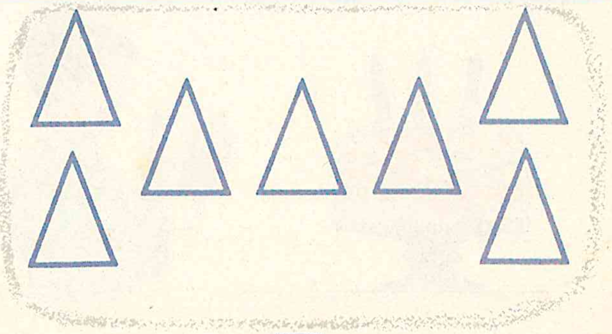
___ + ___ = 7



___ + ___ = 7

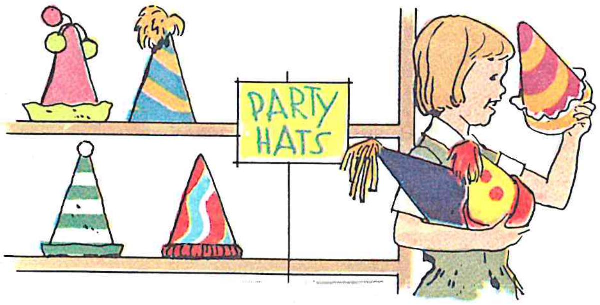


___ − 2 = ___

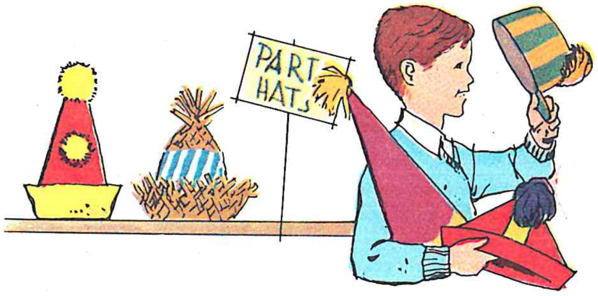


___ − 5 = ___

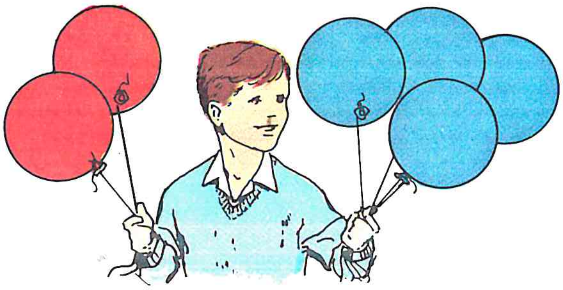
NAME ______________________________



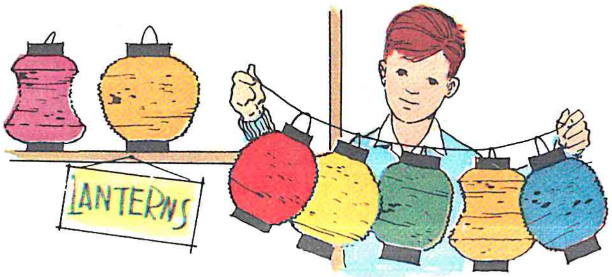
_____ _____ = _____



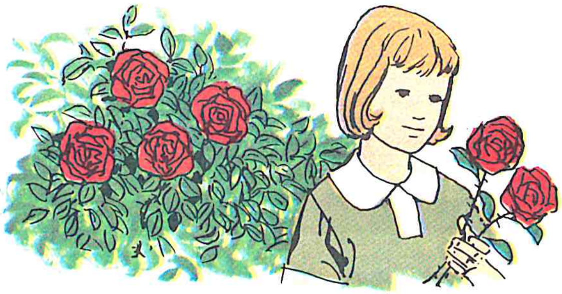
_____ _____ = _____



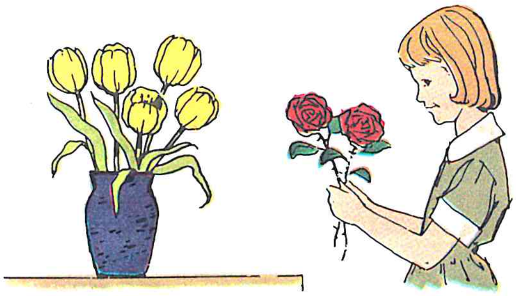
_____ _____ = _____



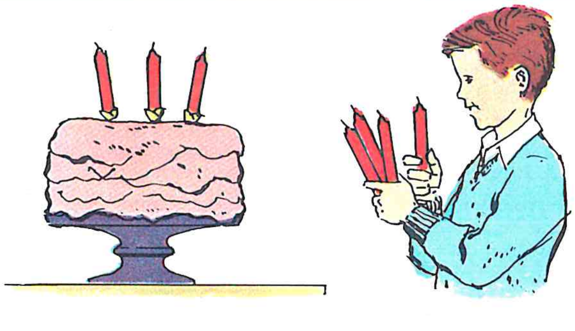
_____ _____ = _____



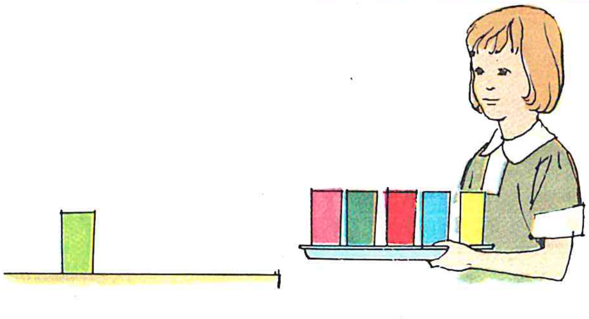
_____ _____ = _____



_____ _____ = _____

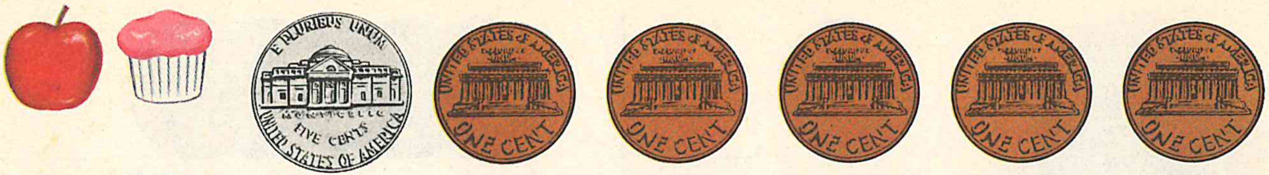


_____ _____ = _____

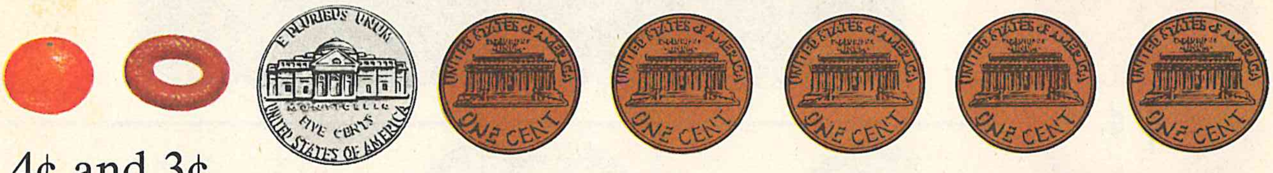


_____ _____ = _____

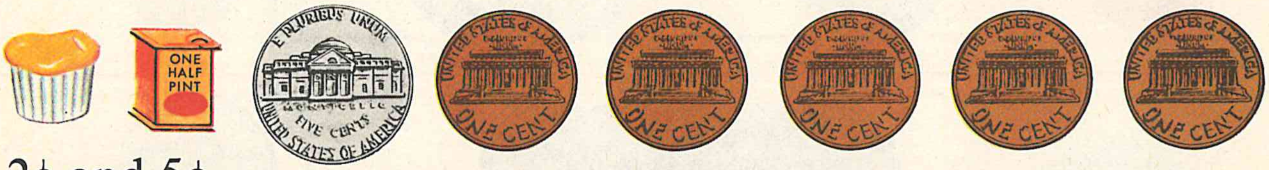
NAME ______________________________



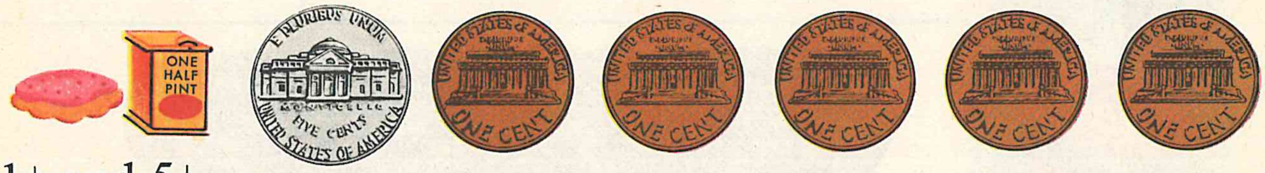
3¢ and 2¢



4¢ and 3¢



2¢ and 5¢



1¢ and 5¢

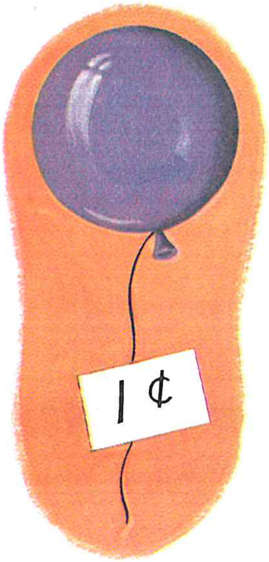
$\begin{array}{r} 1 \\ \underline{+1} \end{array}$ $\begin{array}{r} 4 \\ \underline{-1} \end{array}$ $\begin{array}{r} 7 \\ \underline{-3} \end{array}$ $\begin{array}{r} 4 \\ \underline{+2} \end{array}$ $\begin{array}{r} 3 \\ \underline{-2} \end{array}$ $\begin{array}{r} 5 \\ \underline{+1} \end{array}$ $\begin{array}{r} 7 \\ \underline{-5} \end{array}$

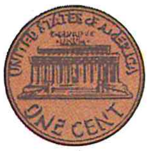
$\begin{array}{r} 2 \\ \underline{+3} \end{array}$ $\begin{array}{r} 3 \\ \underline{+4} \end{array}$ $\begin{array}{r} 6 \\ \underline{-3} \end{array}$ $\begin{array}{r} 7 \\ \underline{-4} \end{array}$ $\begin{array}{r} 1 \\ \underline{+2} \end{array}$ $\begin{array}{r} 6 \\ \underline{-1} \end{array}$ $\begin{array}{r} 2 \\ \underline{+5} \end{array}$

$6 - 4 = \boxed{}$ $1 + 4 = \boxed{}$ $2 - 1 = \boxed{}$

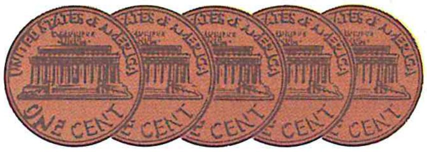
$5 - \boxed{} = 4$ $3 + \boxed{} = 6$ $7 - 2 = \boxed{}$

NAME ____________________


1¢


UNITED STATES OF AMERICA
ONE CENT

____


ONE CENT

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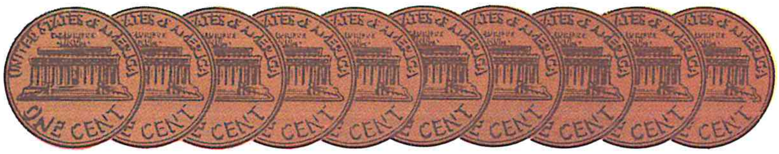
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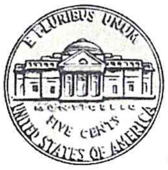
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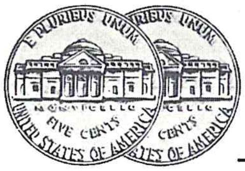
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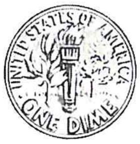
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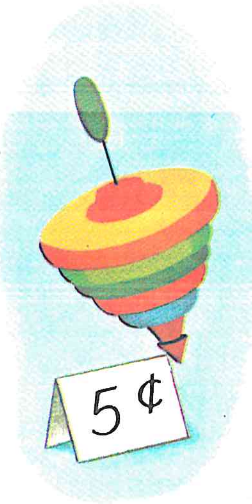
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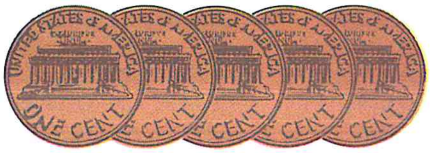
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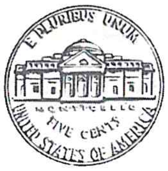
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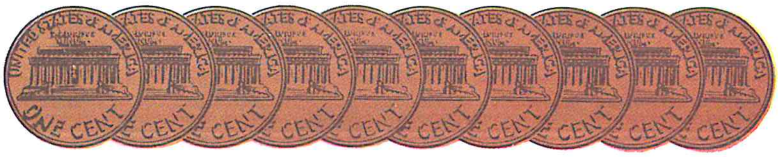
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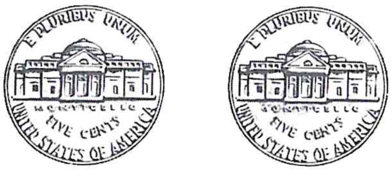
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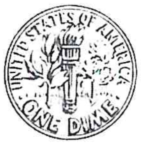
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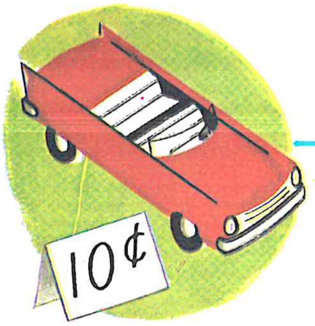
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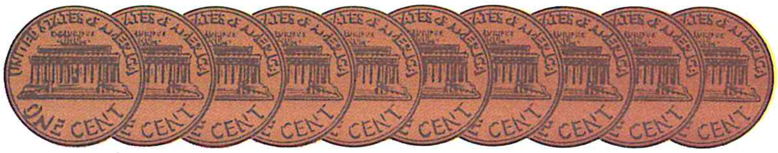
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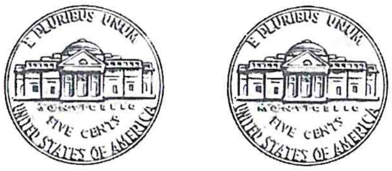
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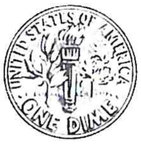
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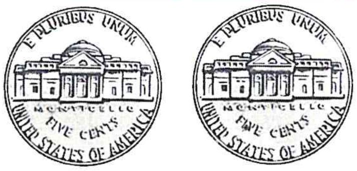
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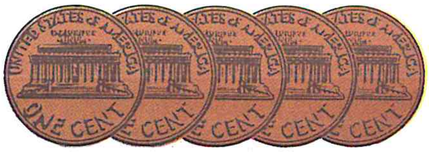
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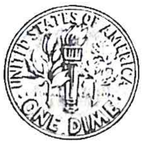
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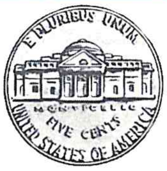
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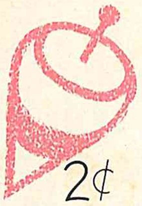
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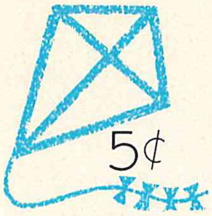
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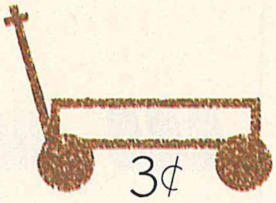
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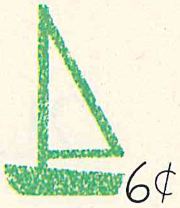
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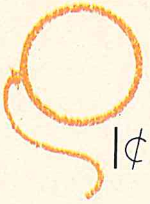
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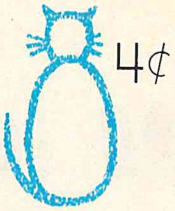
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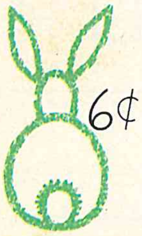
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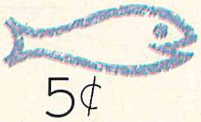
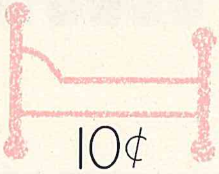

5¢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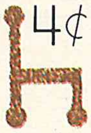
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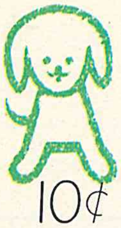
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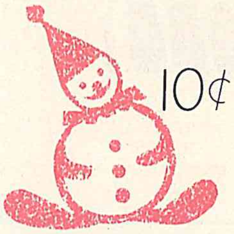
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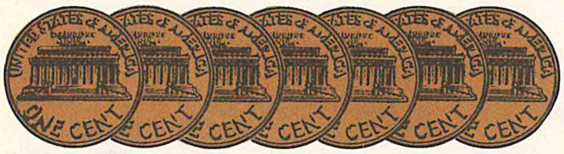
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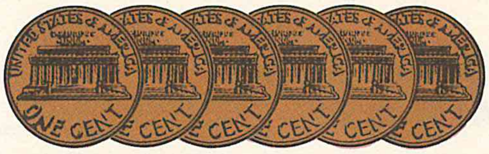
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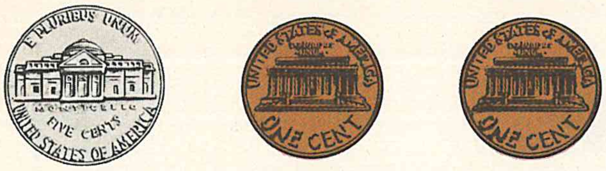
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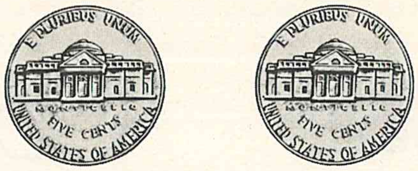
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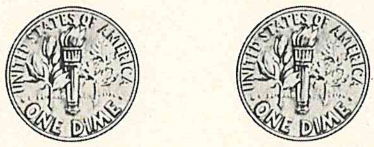
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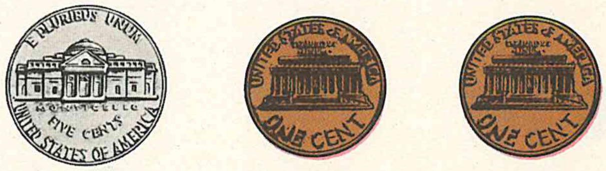
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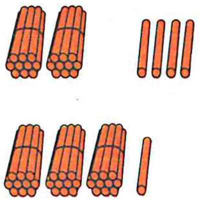
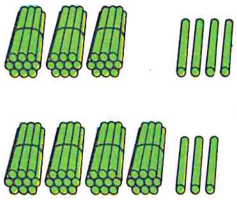
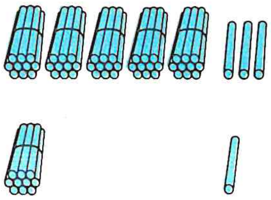


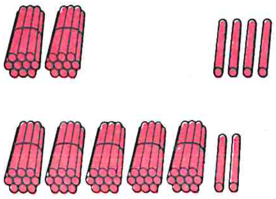
$$\begin{array}{r} 24 \\ +\ 31 \\ \hline \end{array}$$



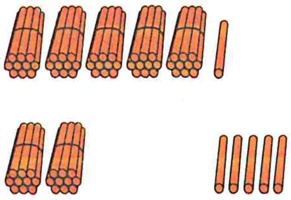
$$\begin{array}{r} 34 \\ +\ 43 \\ \hline \end{array}$$



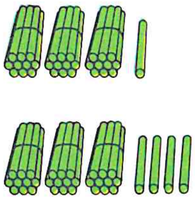
$$\begin{array}{r} 53 \\ +\ 11 \\ \hline \end{array}$$



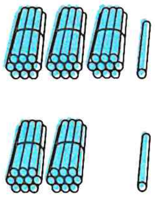
$$\begin{array}{r} 24 \\ +\ 52 \\ \hline \end{array}$$



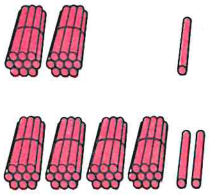
$$\begin{array}{r} 51 \\ +\ 25 \\ \hline \end{array}$$



$$\begin{array}{r} 31 \\ +\ 34 \\ \hline \end{array}$$



$$\begin{array}{r} 31 \\ +\ 21 \\ \hline \end{array}$$



$$\begin{array}{r} 21 \\ +\ 42 \\ \hline \end{array}$$

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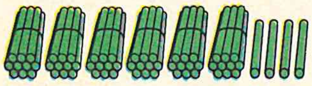
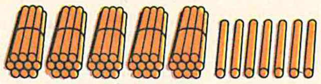
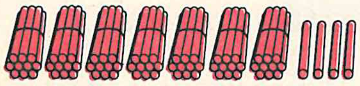


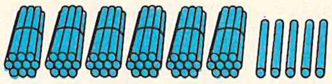
$$\begin{array}{r} 64 \\ -\ 21 \\ \hline \end{array}$$



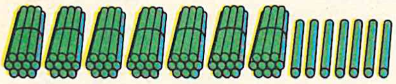
$$\begin{array}{r} 57 \\ -\ 15 \\ \hline \end{array}$$



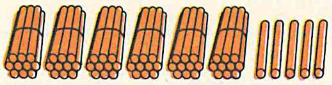
$$\begin{array}{r} 74 \\ -\ 32 \\ \hline \end{array}$$



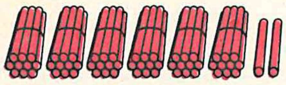
$$\begin{array}{r} 65 \\ -\ 52 \\ \hline \end{array}$$



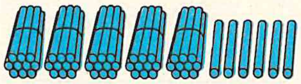
$$\begin{array}{r} 77 \\ -\ 42 \\ \hline \end{array}$$



$$\begin{array}{r} 65 \\ -\ 34 \\ \hline \end{array}$$

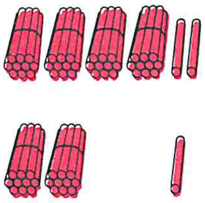


$$\begin{array}{r} 62 \\ -\ 41 \\ \hline \end{array}$$

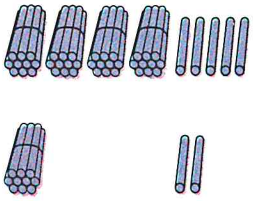


$$\begin{array}{r} 56 \\ -\ 31 \\ \hline \end{array}$$

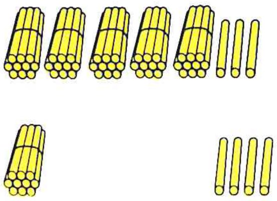
NAME ____



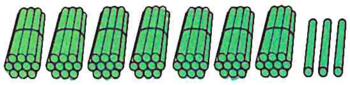
$$\begin{array}{r} 42 \\ +21 \\ \hline \end{array}$$



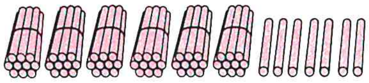
$$\begin{array}{r} 45 \\ +12 \\ \hline \end{array}$$



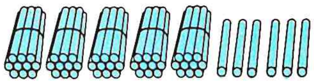
$$\begin{array}{r} 53 \\ +14 \\ \hline \end{array}$$



$$\begin{array}{r} 73 \\ -31 \\ \hline \end{array}$$



$$\begin{array}{r} 67 \\ -35 \\ \hline \end{array}$$



$$\begin{array}{r} 56 \\ -32 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ +4 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ +5 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ +3 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ +3 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ +3 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ +5 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ +4 \\ \hline \end{array}$$

7 − 4 = ☐

6 − 1 = ☐

5 − ☐ = 1

7 − ☐ = 5

6 − 4 = ☐

5 − 2 = ☐

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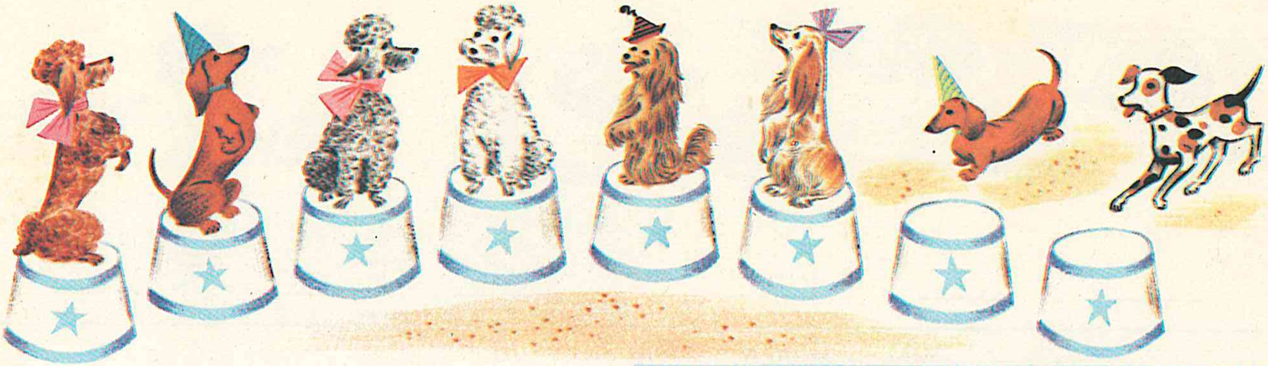
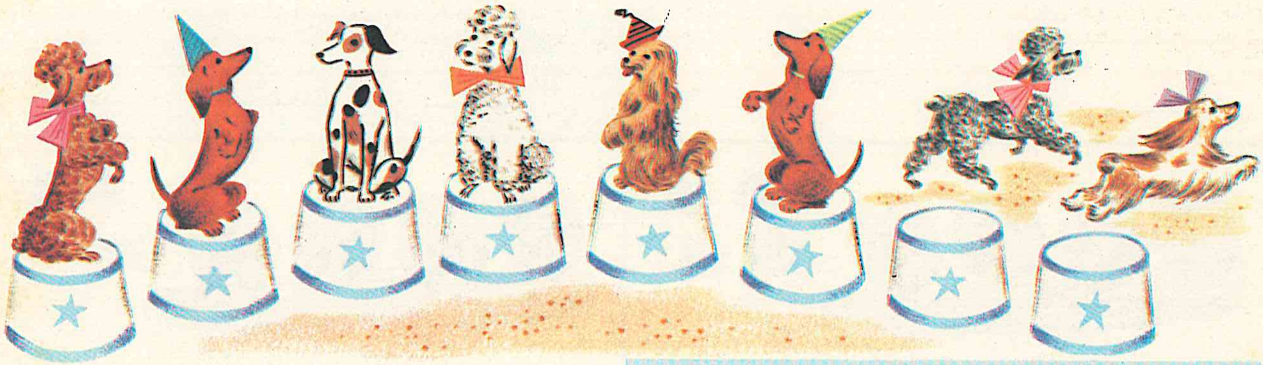


___ + ___ = ___   ___ + ___ = ___



___ − ___ = ___   ___ − ___ = ___

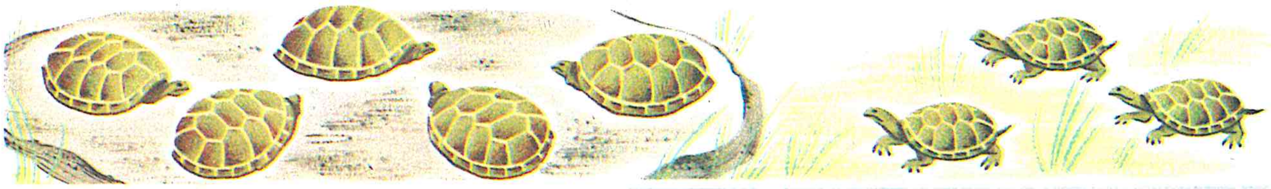
6	2	8	8	4	7	6
+2	+6	−2	−6	+3	−5	−1

2	5	3	5	4	7	5
+4	−2	+3	+2	+1	−2	−4

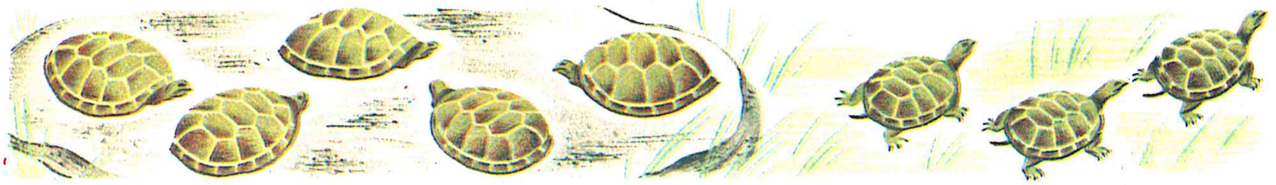
5 + 1 = ☐   2 + ☐ = 7   6 − ☐ = 4

4 − 1 = ☐   3 + 2 = ☐   7 − 4 = ☐

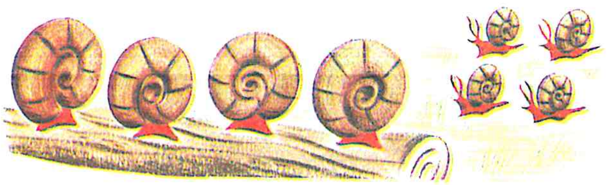
NAME ____



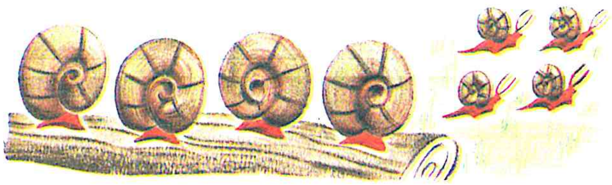
___ + ___ = ___   ___ + ___ = ___



___ − ___ = ___   ___ − ___ = ___



___ + ___ = ___



___ − ___ = ___

5	3	8	8	4	8	2
+3	+5	−3	−5	+4	−4	+6

6	5	8	1	7	6	2
−5	+2	−2	+4	−3	−4	+3

4 + 3 = ☐   8 − ☐ = 2   5 − 3 = ☐

6 + ☐ = 8   4 + 2 = ☐   7 − 5 = ☐

NAME ____

□□□□□□

___ + ___ = 8

□□

___ + ___ = 8

□□□□□□□□

___ − 2 = ___

□□□□□□□□

___ − 6 = ___

□□□□□

___ + ___ = 8

□□□

___ + ___ = 8

□□□□□□□□

___ − 3 = ___

□□□□□□□□

___ − 5 = ___

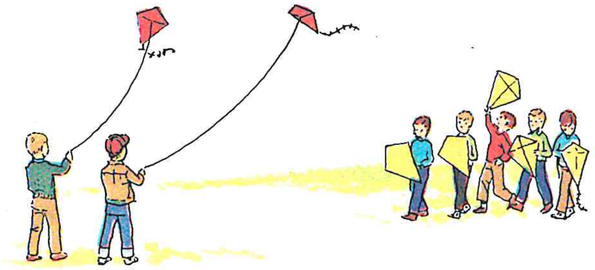
□□□□

___ + ___ = 8

□□□□□□□□

___ − 4 = ___

NAME ____



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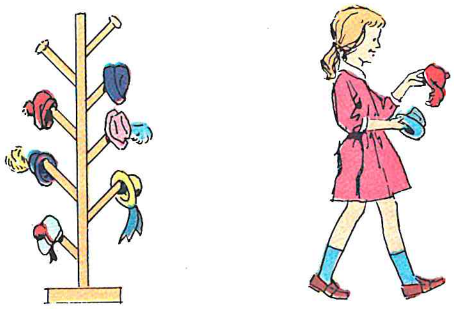

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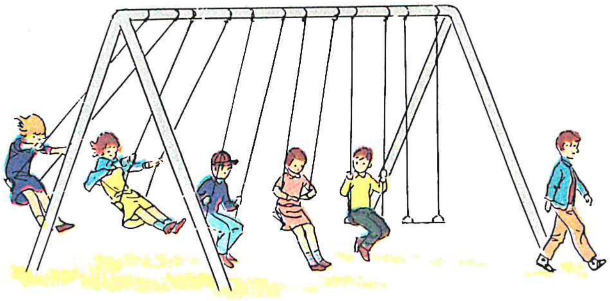

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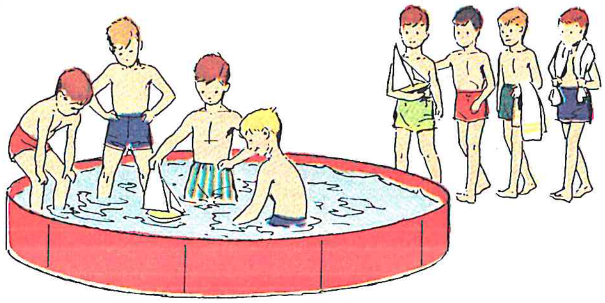

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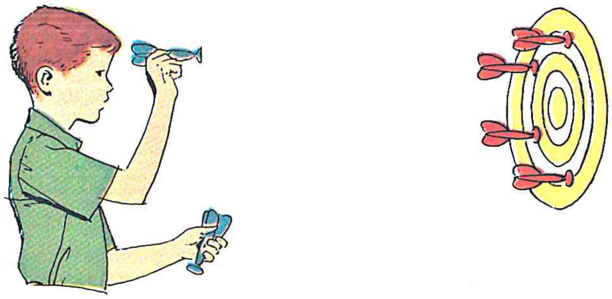

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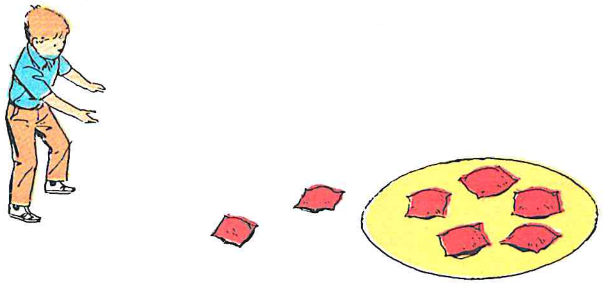

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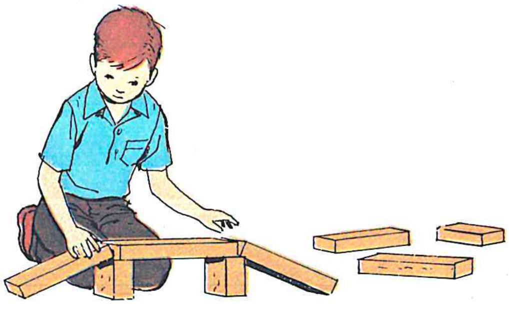

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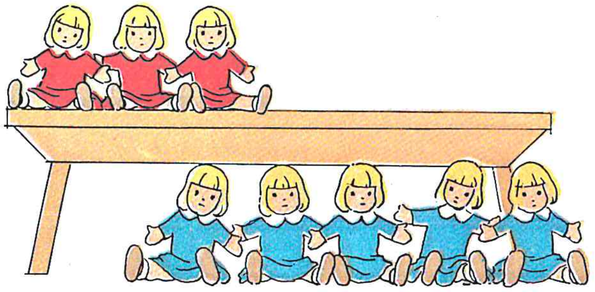


____ ____ = ____

NAME ____

$4 + \square = 5$ $\square + 4 = 5$

$3 + \square = 8$ $\square + 3 = 8$

$2 + \square = 6$ $\square + 2 = 6$

$4 + \square = 7$ $\square + 4 = 7$

$$\begin{array}{r}2\\\underline{+4}\end{array}\quad\begin{array}{r}6\\\underline{-3}\end{array}\quad\begin{array}{r}1\\\underline{+3}\end{array}\quad\begin{array}{r}8\\\underline{-4}\end{array}\quad\begin{array}{r}1\\\underline{+5}\end{array}\quad\begin{array}{r}6\\\underline{+2}\end{array}\quad\begin{array}{r}5\\\underline{-2}\end{array}$$

$$\begin{array}{r}5\\\underline{-1}\end{array}\quad\begin{array}{r}3\\\underline{+5}\end{array}\quad\begin{array}{r}7\\\underline{-2}\end{array}\quad\begin{array}{r}6\\\underline{-4}\end{array}\quad\begin{array}{r}3\\\underline{+2}\end{array}\quad\begin{array}{r}7\\\underline{-5}\end{array}\quad\begin{array}{r}3\\\underline{+4}\end{array}$$

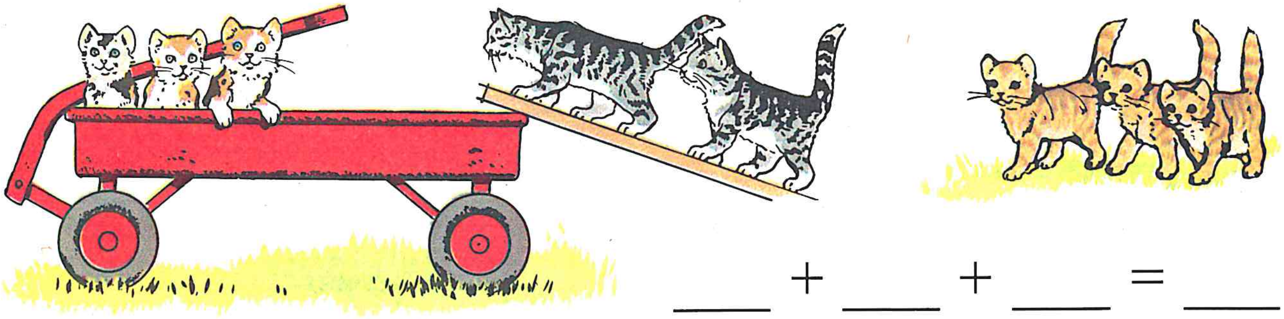
$2 + 5 = \square$ $8 - 6 = \square$ $7 - 3 = \square$

$4 + \square = 8$ $5 + 2 = \square$ $8 - 5 = \square$

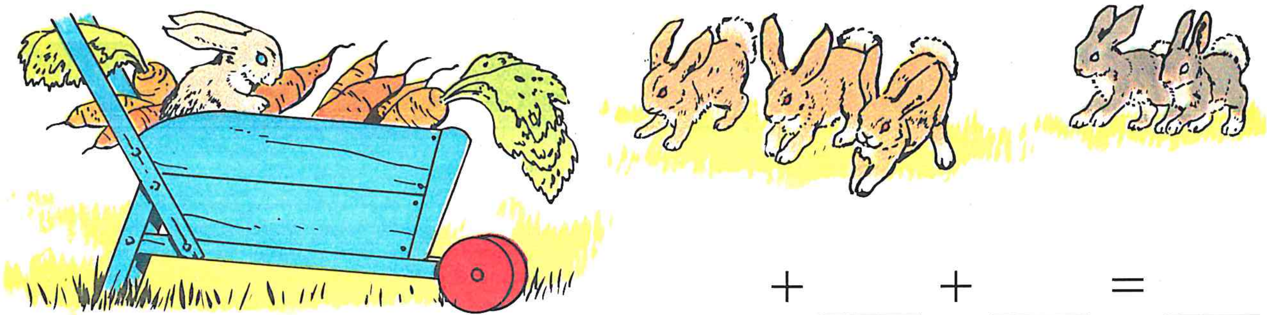
$4 - 2 = \square$ $5 + 3 = \square$ $6 - 5 = \square$

$8 - \square = 6$ $3 + 3 = \square$ $\square + 4 = 5$

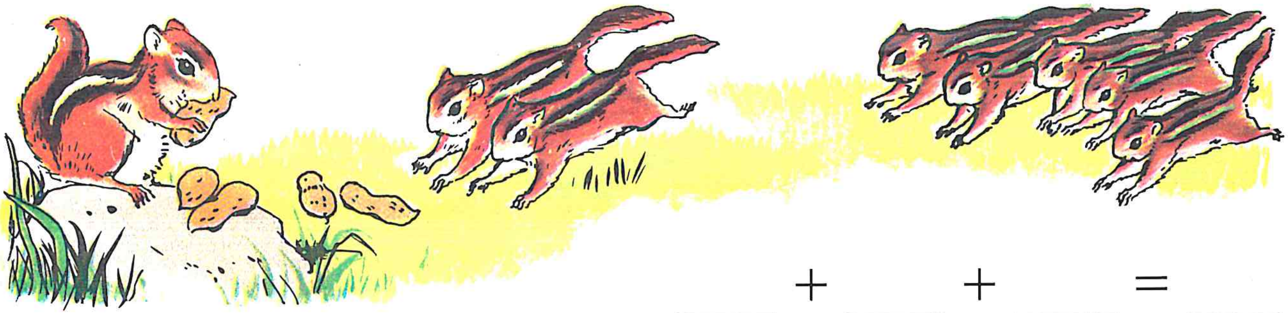
NAME ______________________________



____ + ____ + ____ = ____



____ + ____ + ____ = ____



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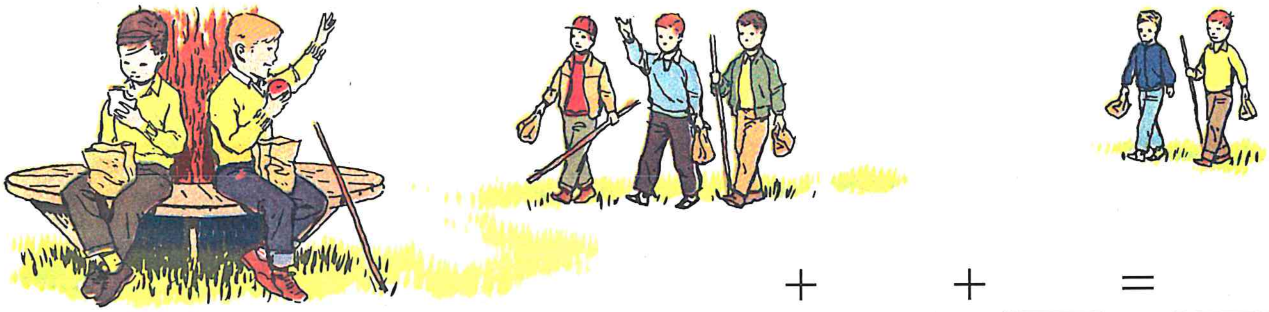
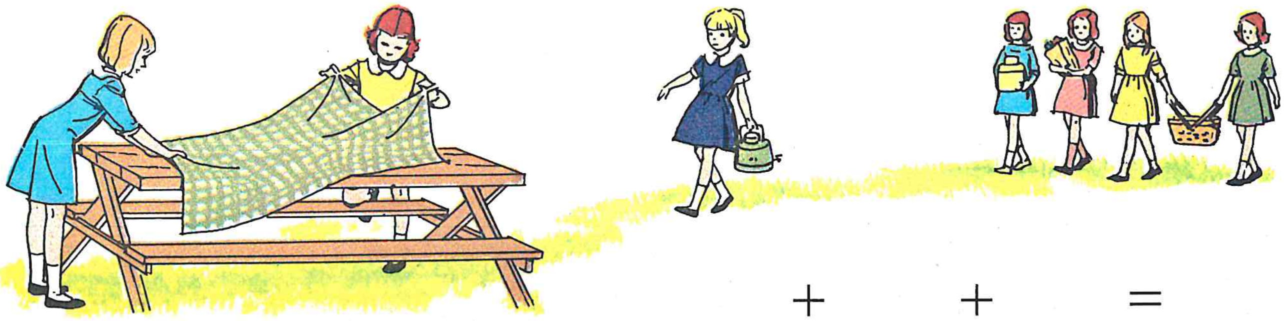
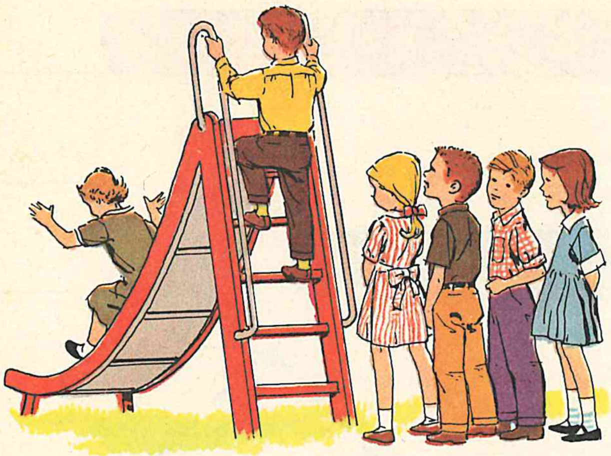


____ + ____ + ____ = ____

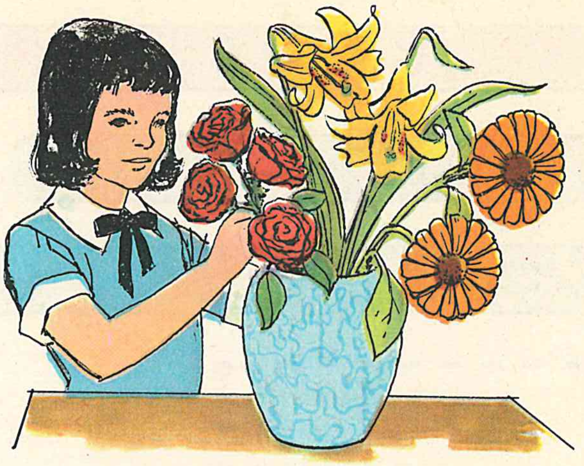


____ + ____ + ____ = ____

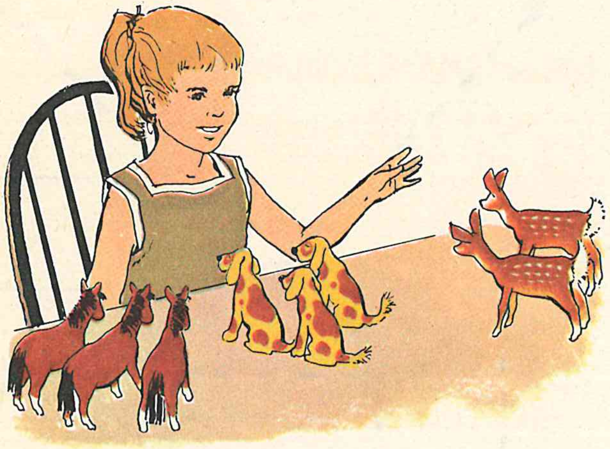
NAME ______________________________



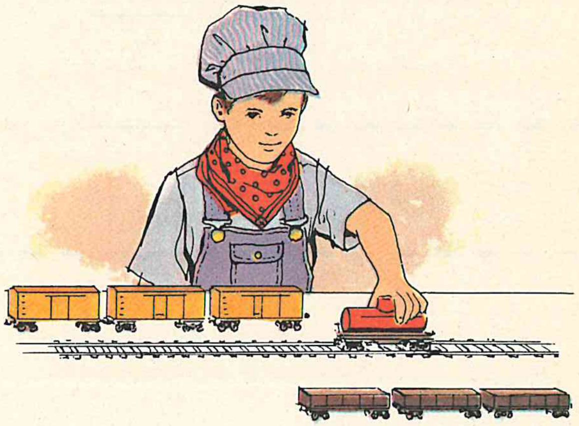
___ + ___ + ___ = ___



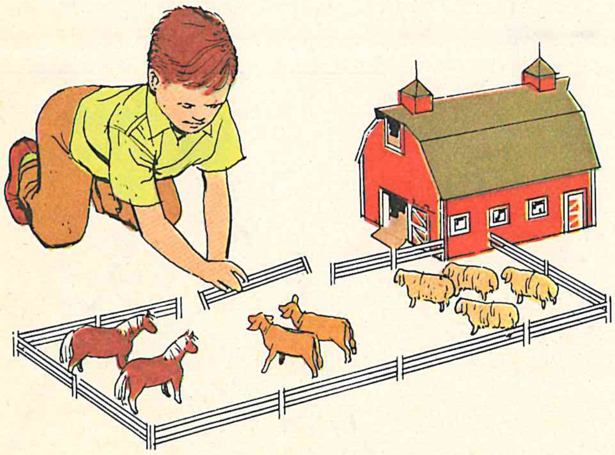
___ + ___ + ___ = ___



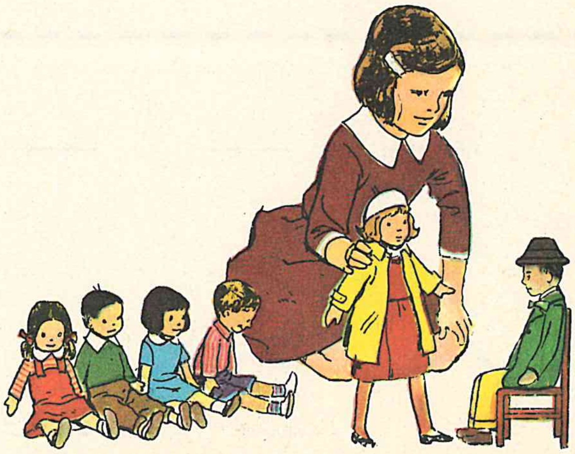
___ + ___ + ___ = ___



___ + ___ + ___ = ___



___ + ___ + ___ = ___



___ + ___ + ___ = ___

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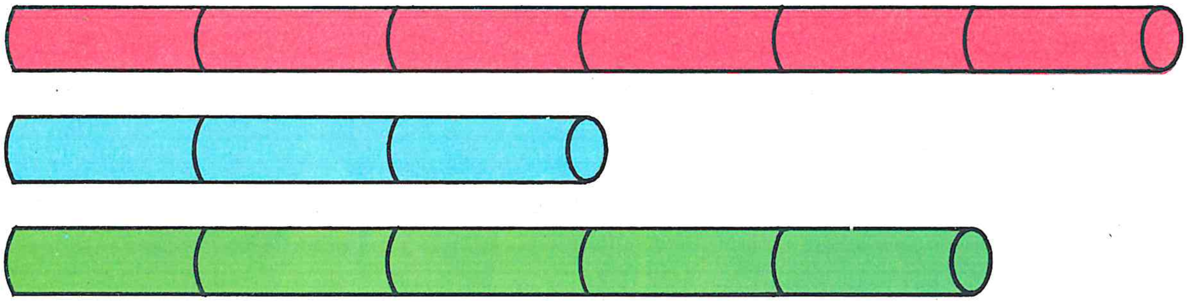

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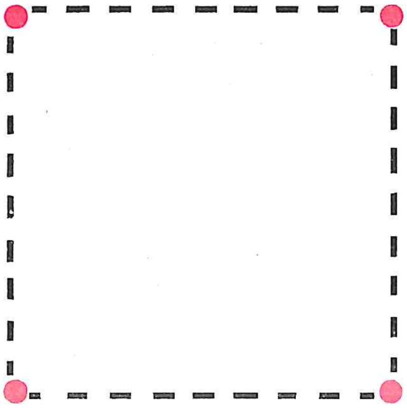

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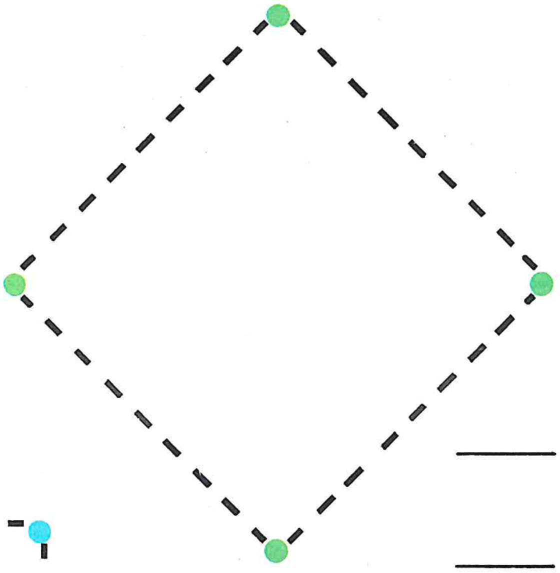

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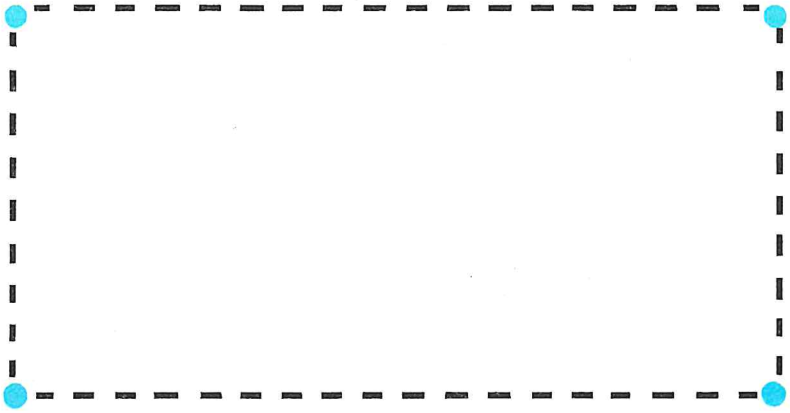
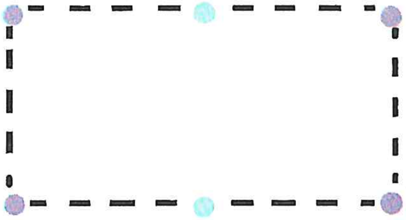
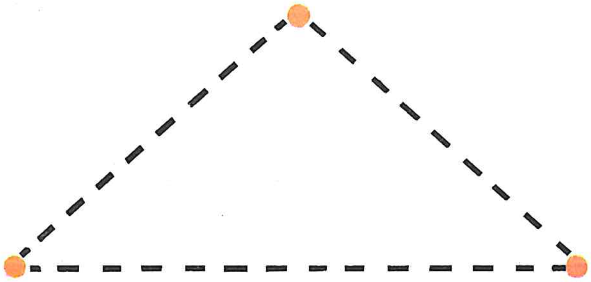


____ ____ ____



____ ____ ____



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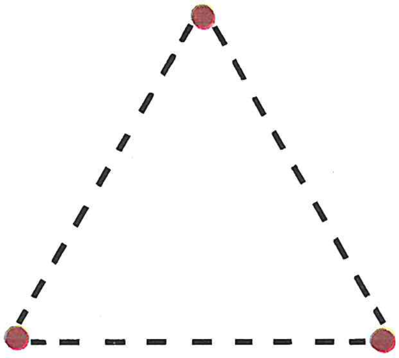

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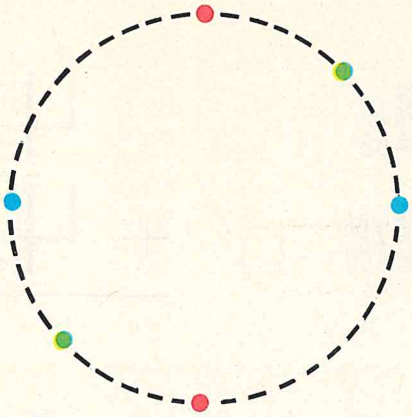

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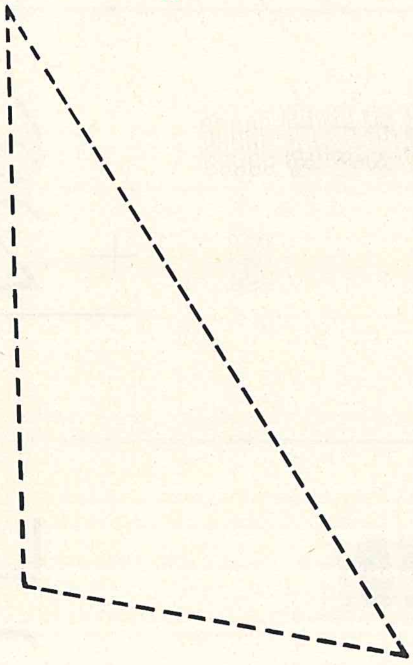

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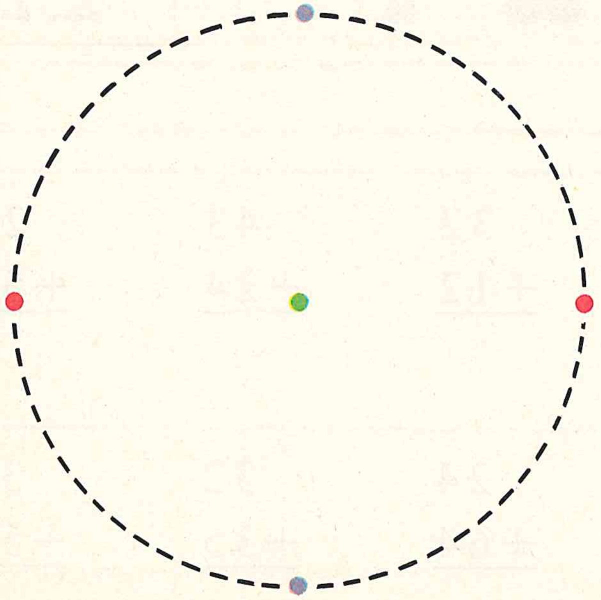

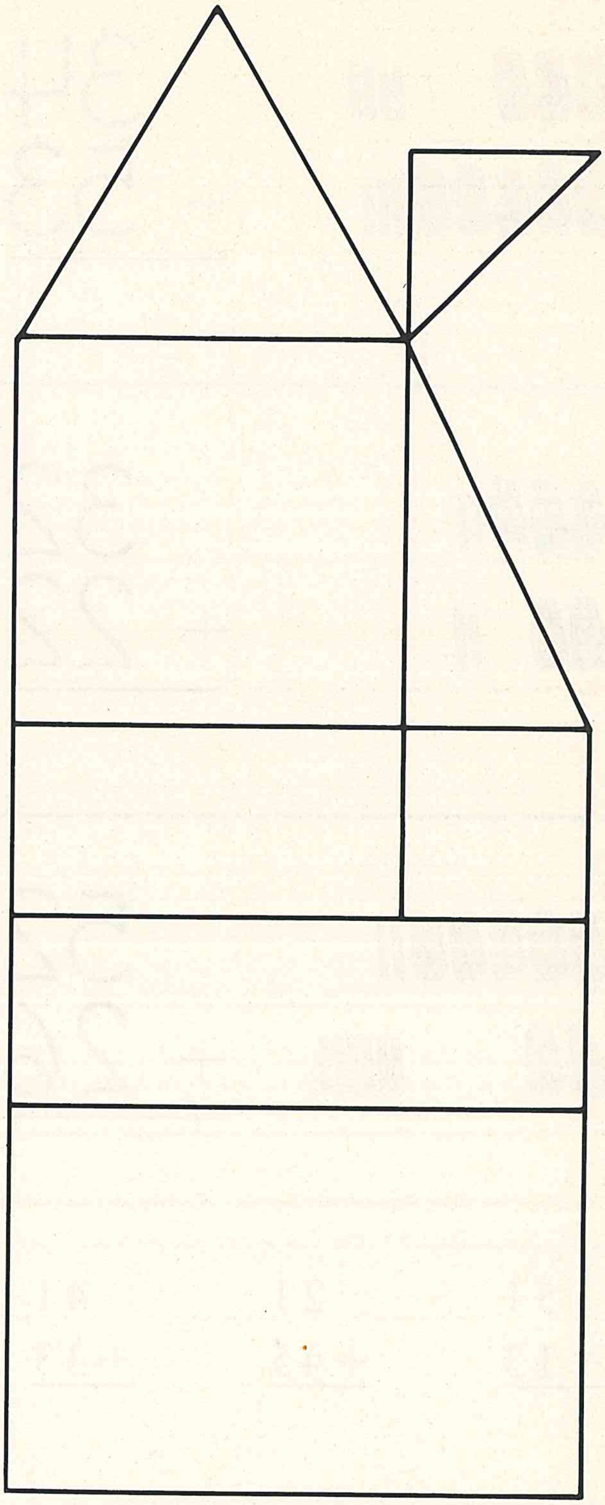

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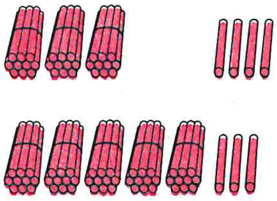
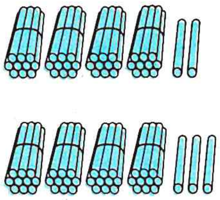
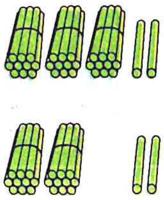


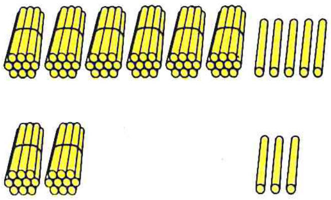
$$\begin{array}{r} 34 \\ +\;53 \\ \hline \end{array}$$



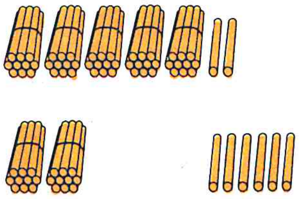
$$\begin{array}{r} 42 \\ +\;43 \\ \hline \end{array}$$



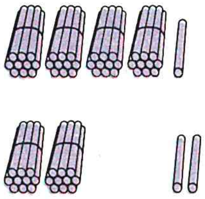
$$\begin{array}{r} 32 \\ +\;22 \\ \hline \end{array}$$



$$\begin{array}{r} 65 \\ +\;23 \\ \hline \end{array}$$



$$\begin{array}{r} 52 \\ +\;26 \\ \hline \end{array}$$

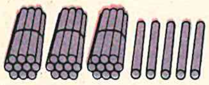


$$\begin{array}{r} 41 \\ +\;22 \\ \hline \end{array}$$

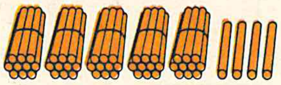
$$\begin{array}{rrrrrr} 51 & 21 & 41 & 32 & 43 & 21 \\ +13 & +45 & +33 & +12 & +24 & +51 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 23 & 15 & 43 & 24 & 32 & 36 \\ +12 & +42 & +13 & +64 & +35 & +52 \\ \hline \end{array}$$

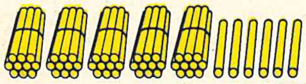
NAME ____



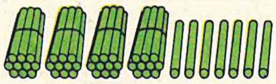
$$\begin{array}{r}35\\-\ 23\\\hline\end{array}$$



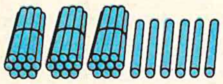
$$\begin{array}{r}54\\-\ 21\\\hline\end{array}$$



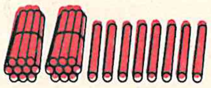
$$\begin{array}{r}56\\-\ 42\\\hline\end{array}$$



$$\begin{array}{r}47\\-\ 23\\\hline\end{array}$$



$$\begin{array}{r}36\\-\ 13\\\hline\end{array}$$



$$\begin{array}{r}28\\-\ 16\\\hline\end{array}$$

$$\begin{array}{r}85\\-23\\\hline\end{array}\quad\begin{array}{r}74\\-43\\\hline\end{array}\quad\begin{array}{r}62\\-41\\\hline\end{array}\quad\begin{array}{r}85\\-42\\\hline\end{array}\quad\begin{array}{r}78\\-26\\\hline\end{array}\quad\begin{array}{r}37\\-15\\\hline\end{array}$$

$$\begin{array}{r}86\\-51\\\hline\end{array}\quad\begin{array}{r}85\\-31\\\hline\end{array}\quad\begin{array}{r}68\\-54\\\hline\end{array}\quad\begin{array}{r}76\\-32\\\hline\end{array}\quad\begin{array}{r}48\\-33\\\hline\end{array}\quad\begin{array}{r}56\\-43\\\hline\end{array}$$

NAME ____________________

$3 + \square = 8$ $8 - \square = 3$

$2 + \square = 7$ $7 - \square = 2$

$6 + \square = 8$ $8 - \square = 6$

$4 + \square = 7$ $7 - \square = 4$

7	2	6	8	1	7	8
− 5	+ 6	− 5	− 6	+ 5	− 2	− 3

2	6	8	3	6	8	7
+ 5	− 4	− 5	+ 4	− 2	− 2	− 3

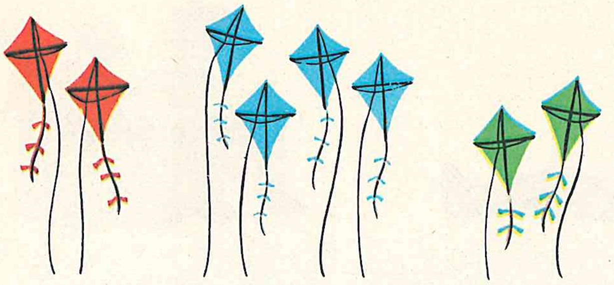
$2 + 1 + 5 = \square$ $1 + 4 + 1 = \square$

$2 + 3 + 3 = \square$ $2 + 2 + 3 = \square$

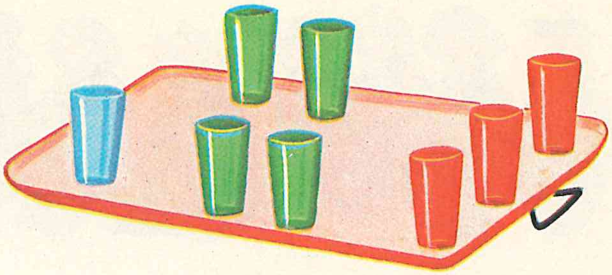
$1 + 1 + 4 = \square$ $4 + 1 + 2 = \square$

$1 + 2 + 2 = \square$ $1 + 3 + 2 = \square$

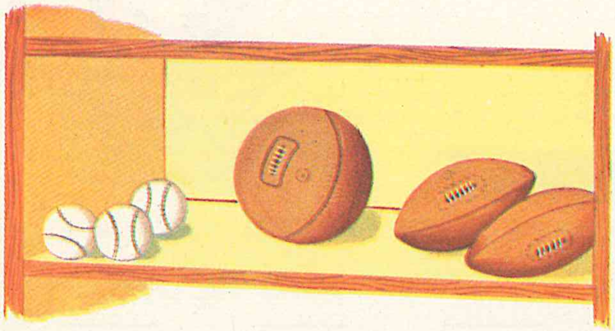
NAME ______________________________



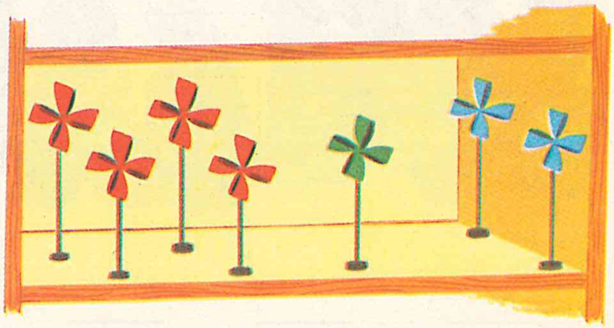
___ + ___ + ___ = ___



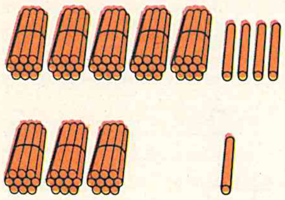
___ + ___ + ___ = ___



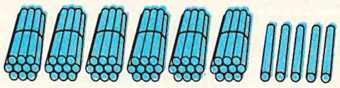
___ + ___ + ___ = ___



___ + ___ + ___ = ___



$$\begin{array}{r} 54 \\ +\,31 \\ \hline \end{array}$$

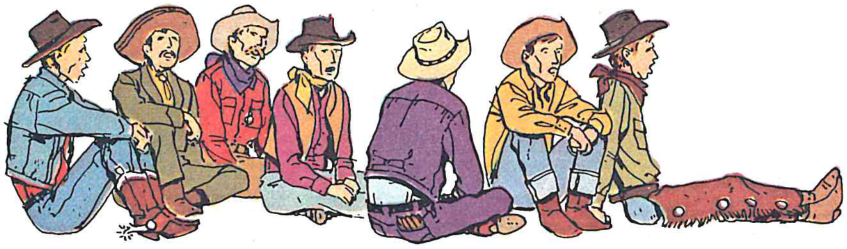


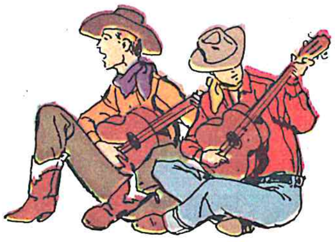
$$\begin{array}{r} 65 \\ -\,31 \\ \hline \end{array}$$

41	22	33	53	52	64
+45	+56	+24	+15	+23	+22

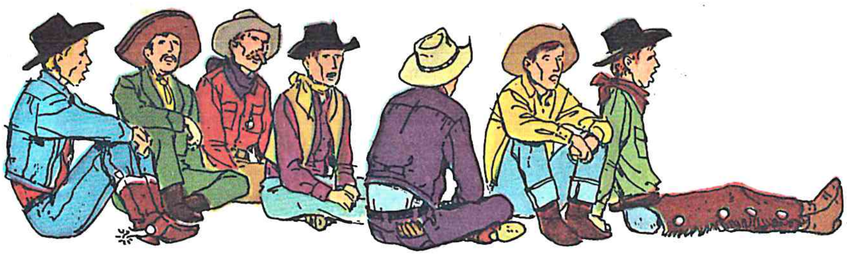
87	86	85	66	78	84
−53	−21	−64	−25	−53	−43

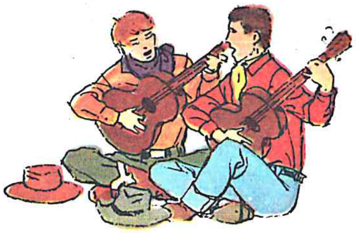
NAME ______________________________





____ + ____ = ____ ____ + ____ = ____





____ − ____ = ____ ____ − ____ = ____

7	2	9	9	4	8	3
+2	+7	−2	−7	+2	−5	+5

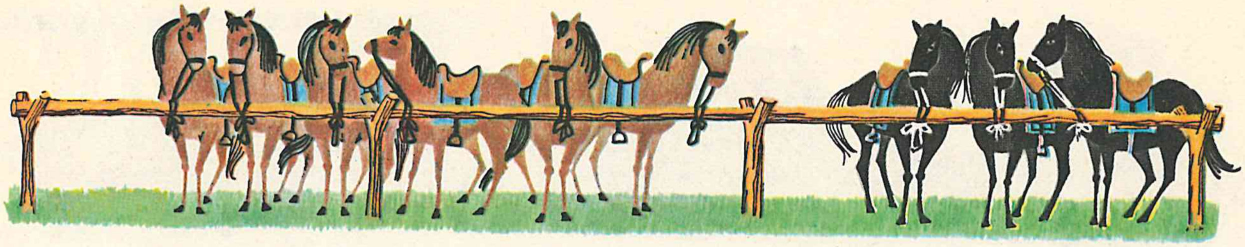
8	6	2	7	8	2	5
−4	−2	+3	−5	−6	+6	−4

7	1	8	5	7	8	4
−2	+5	−3	+2	−4	−2	+4

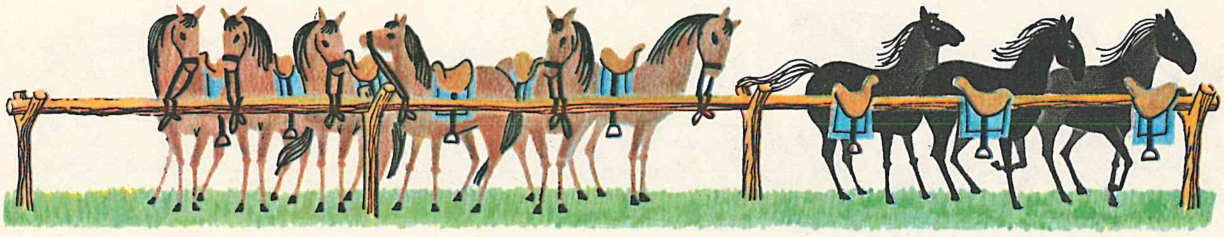
1 + 1 + 5 = ☐ 2 + 3 + 3 = ☐

1 + 4 + 1 = ☐ 3 + 4 + 2 = ☐

NAME ____



___ + ___ = ___   ___ + ___ = ___



___ − ___ = ___   ___ − ___ = ___

6	3	9	9	7	6	5
+3	+6	−3	−6	−4	+2	−3

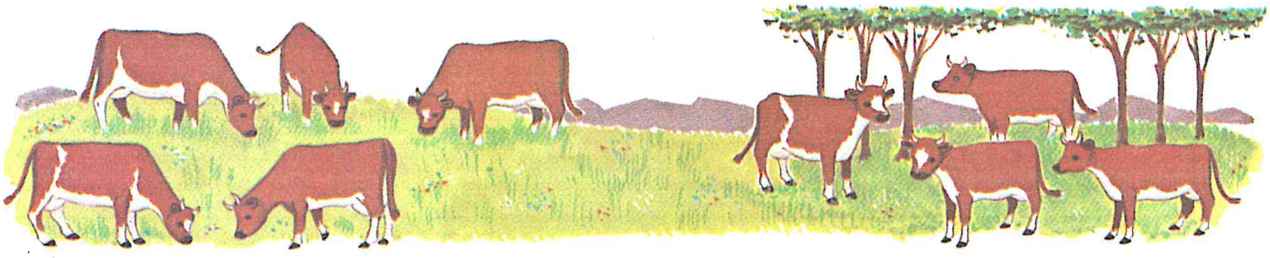
3	8	5	7	8	2	7
+3	−2	+3	−5	−4	+4	−3

4	1	8	6	2	8	6
+3	+4	−5	−4	+5	−3	−1

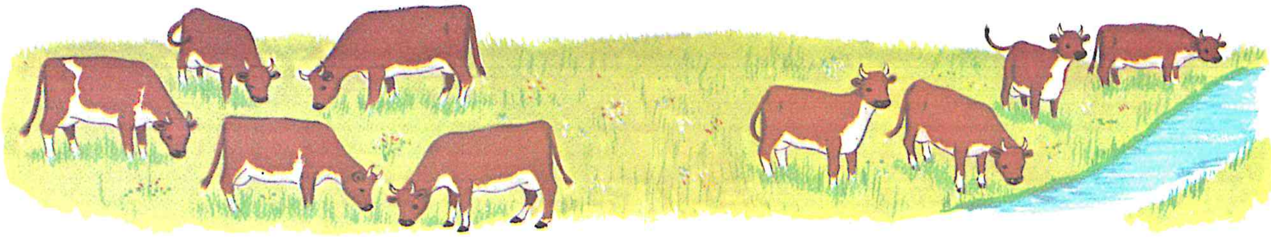
1 + 5 + 2 = ☐   3 + 3 + 3 = ☐

1 + 3 + 3 = ☐   1 + 1 + 7 = ☐

NAME ____



___ + ___ = ___ ___ + ___ = ___



___ − ___ = ___ ___ − ___ = ___

5	4	9	9	2	9	7
+ 4	+ 5	− 4	− 5	+ 6	− 3	− 4

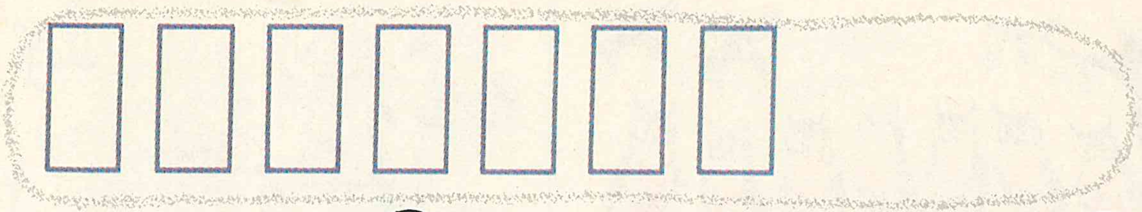
7	8	3	9	3	8	7
− 2	− 3	+ 2	− 7	+ 5	− 6	+ 2

8	6	2	9	4	9	3
− 4	− 3	+ 7	− 6	+ 2	− 2	+ 4

1 + 4 + 2 = ☐ 3 + 2 + 4 = ☐

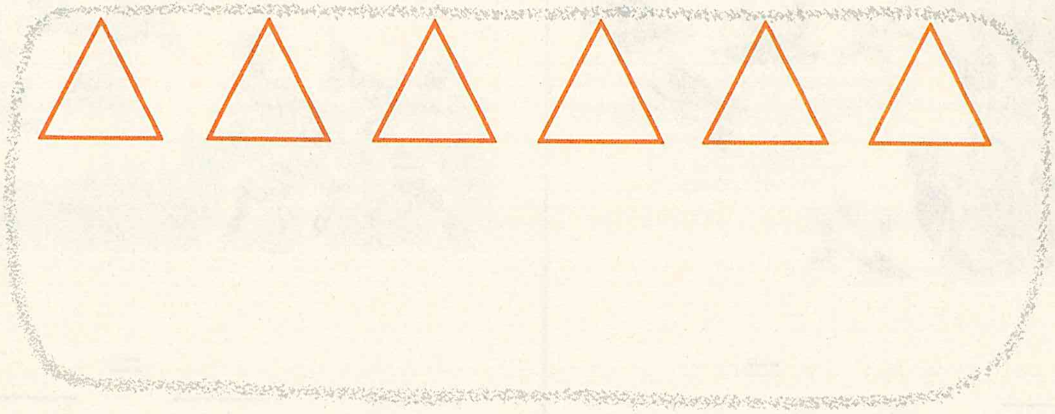
3 + 1 + 4 = ☐ 2 + 2 + 5 = ☐

NAME ____



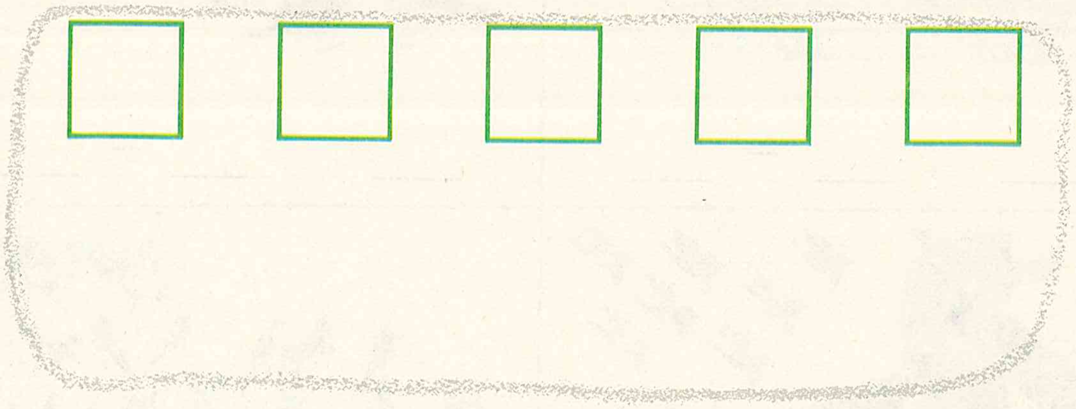
___ + ___ = 9
___ − 2 = ___

___ + ___ = 9
___ − 7 = ___



___ + ___ = 9
___ − 3 = ___

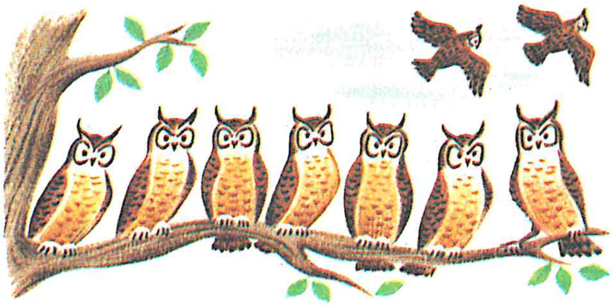
___ + ___ = 9
___ − 6 = ___



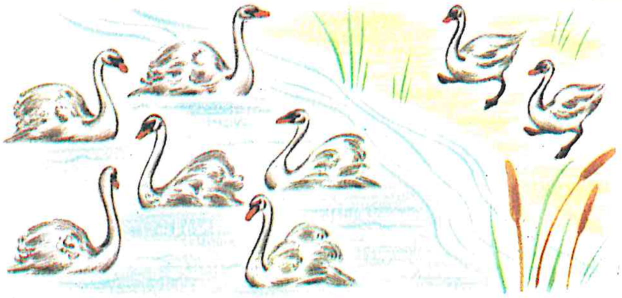
___ + ___ = 9
___ − 4 = ___

___ + ___ = 9
___ − 5 = ___

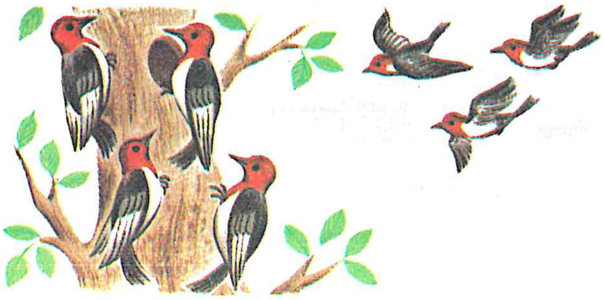
NAME ____



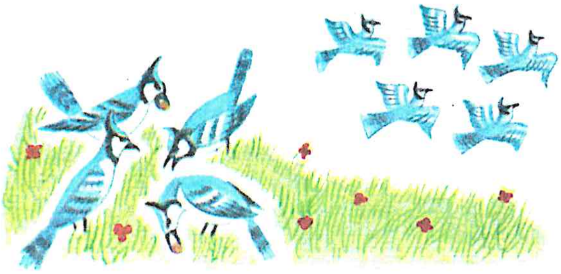
_____ _____ = _____



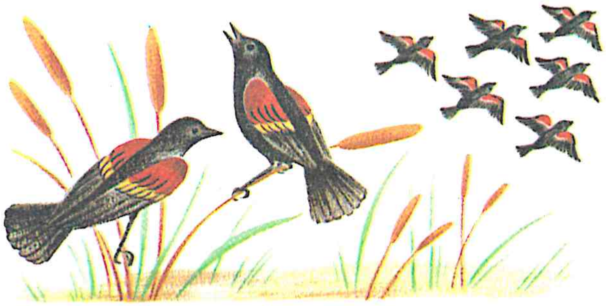
_____ _____ = _____



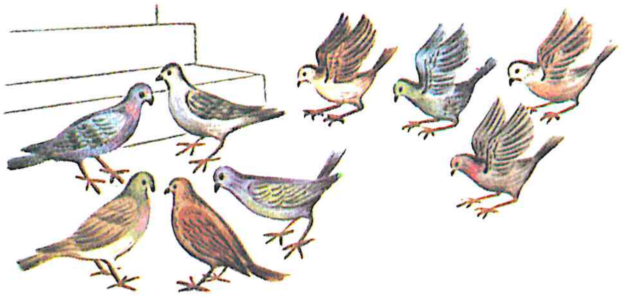
_____ _____ = _____



_____ _____ = _____



_____ _____ = _____



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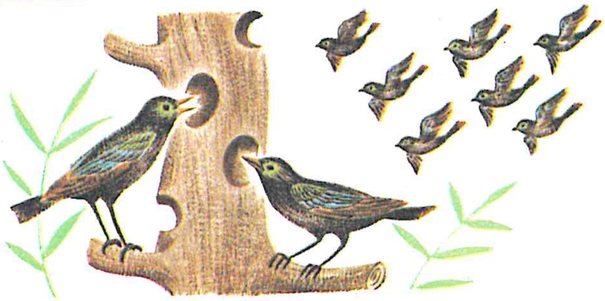
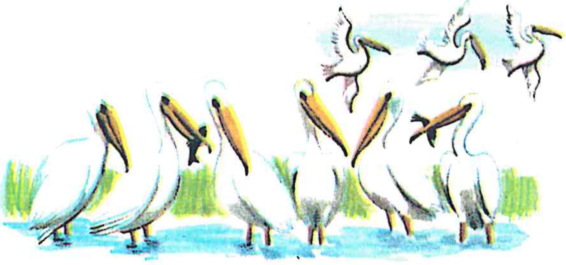
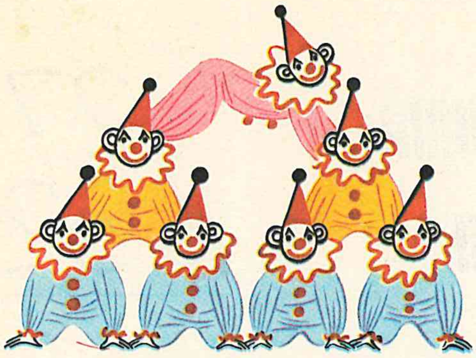


_____ _____ = _____

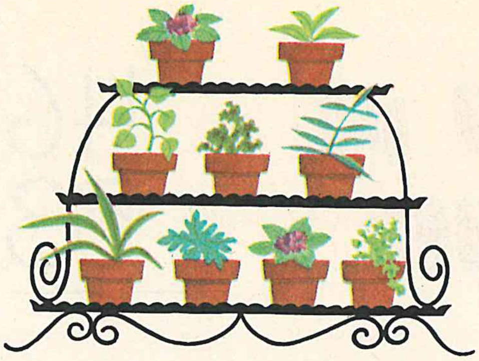


_____ _____ = _____

NAME ____



1
2
4



2
3
4

1	3	1	1	2	1	4
1	2	3	4	4	2	1
6	2	4	4	3	2	3

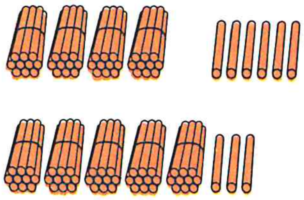
1	2	2	3	2	2	2
2	5	2	1	1	2	1
3	2	3	5	5	2	6

3	7	3	4	6	3	2
+6	+2	+5	+5	+3	+5	+7

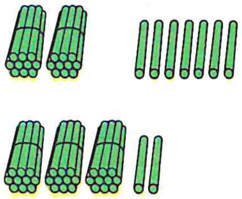
9	8	7	6	9	8	9
−4	−3	−2	−5	−2	−6	−5

8	9	5	8	9	8	9
−4	−3	−2	−5	−6	−2	−7

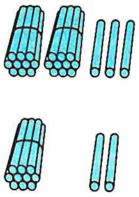
NAME ______________________________



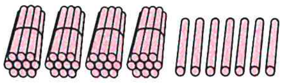
$$\begin{array}{r}46\\+\ 53\\\hline\end{array}$$



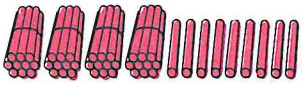
$$\begin{array}{r}27\\+\ 32\\\hline\end{array}$$



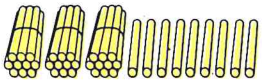
$$\begin{array}{r}23\\+\ 12\\\hline\end{array}$$



$$\begin{array}{r}47\\-\ 24\\\hline\end{array}$$



$$\begin{array}{r}49\\-\ 14\\\hline\end{array}$$

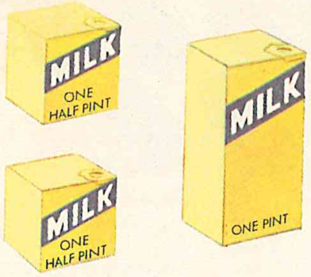


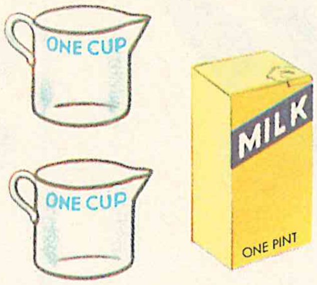
$$\begin{array}{r}39\\-\ 22\\\hline\end{array}$$

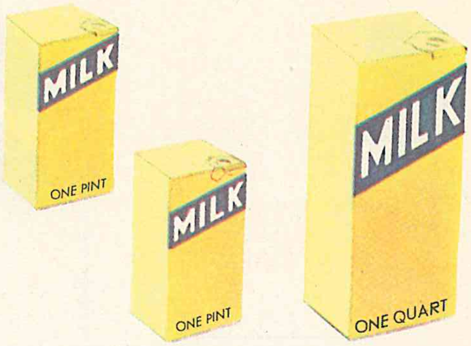
$$\begin{array}{r}52\\+37\\\hline\end{array}\qquad\begin{array}{r}36\\+62\\\hline\end{array}\qquad\begin{array}{r}54\\+43\\\hline\end{array}\qquad\begin{array}{r}53\\+25\\\hline\end{array}\qquad\begin{array}{r}42\\+46\\\hline\end{array}\qquad\begin{array}{r}16\\+13\\\hline\end{array}$$

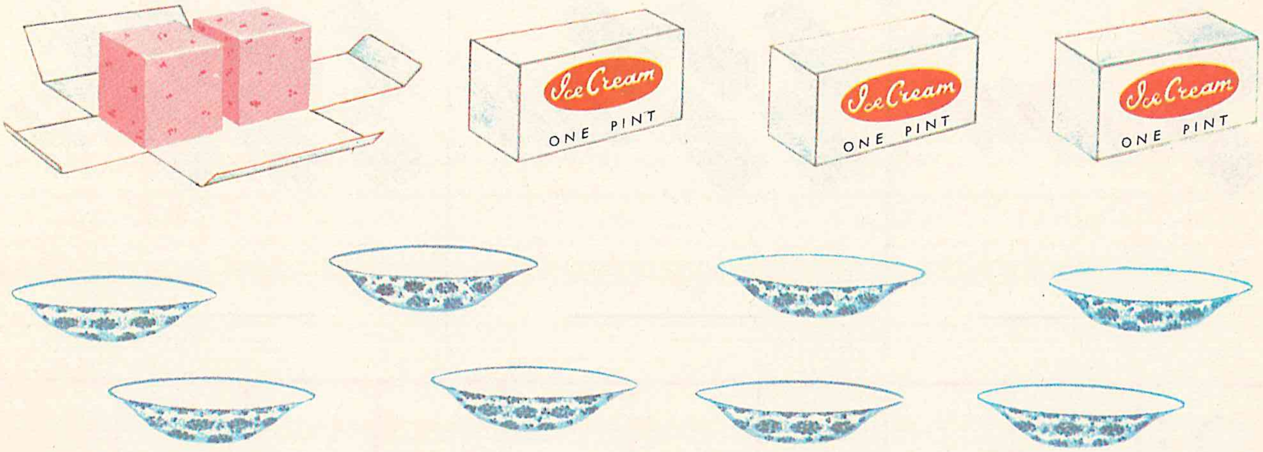
$$\begin{array}{r}98\\-76\\\hline\end{array}\qquad\begin{array}{r}89\\-36\\\hline\end{array}\qquad\begin{array}{r}99\\-35\\\hline\end{array}\qquad\begin{array}{r}78\\-24\\\hline\end{array}\qquad\begin{array}{r}77\\-35\\\hline\end{array}\qquad\begin{array}{r}88\\-52\\\hline\end{array}$$

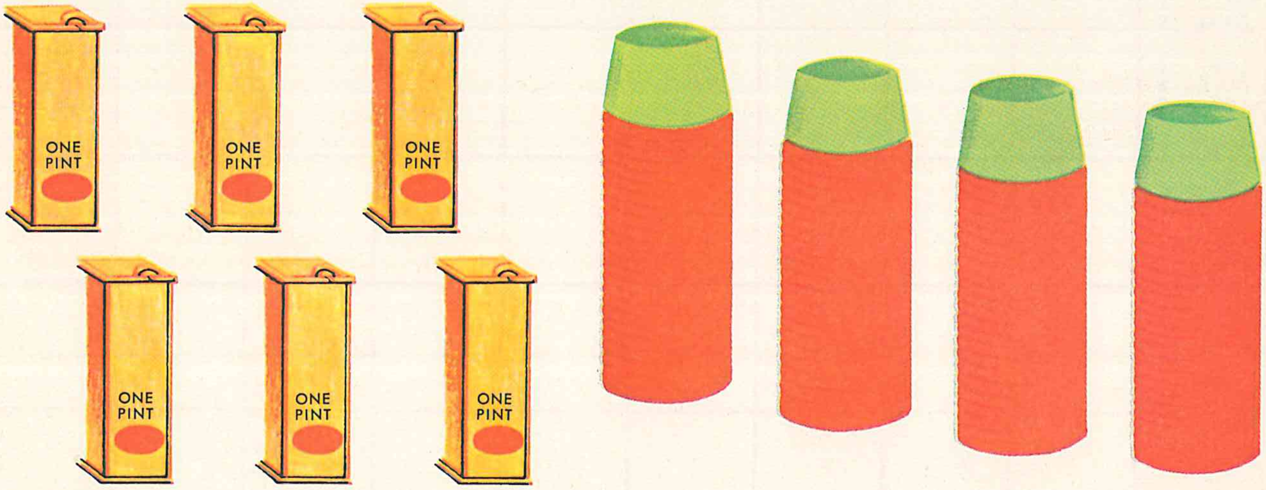
NAME ____

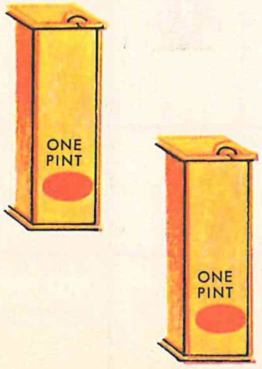

MILK
ONE HALF PINT
MILK
ONE HALF PINT
MILK
ONE PINT


ONE CUP
ONE CUP
MILK
ONE PINT

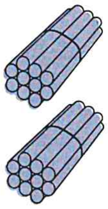

MILK
ONE PINT
MILK
ONE PINT
MILK
ONE QUART


Ice Cream
ONE PINT
Ice Cream
ONE PINT
Ice Cream
ONE PINT


ONE PINT
ONE PINT
ONE PINT
ONE PINT
ONE PINT
ONE PINT


ONE PINT
ONE PINT

NAME ______________________________



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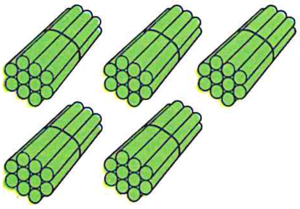

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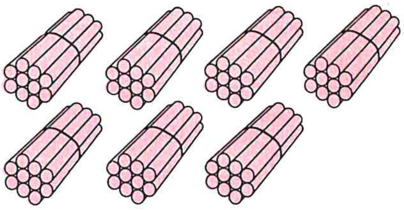

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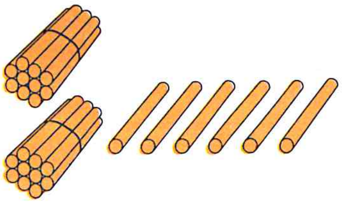

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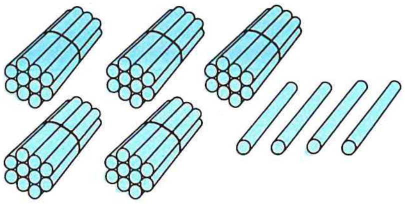

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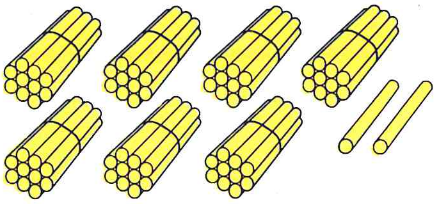
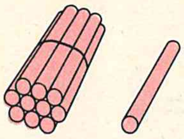


______

21									
31									

NAME ______



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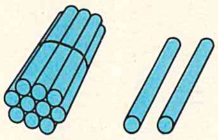
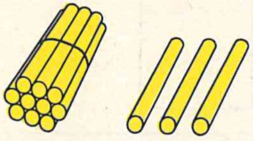
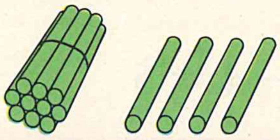
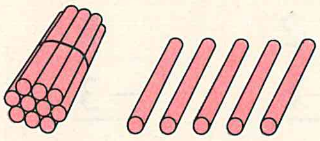
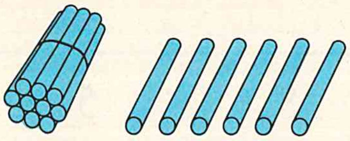
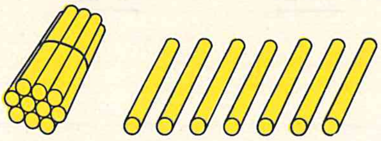


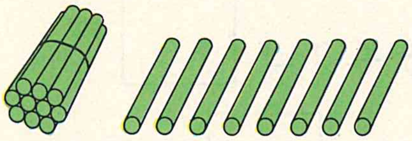


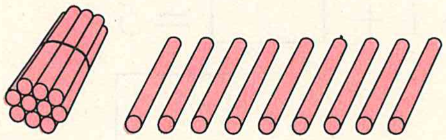


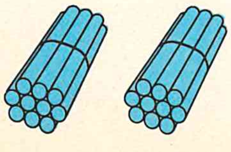












NAME ____

$2 + 7 = \square$ $\square - 7 = 2$

$3 + 5 = \square$ $\square - 5 = 3$

$\square - 2 = 6$ $6 + 2 = \square$

$5 + 4 = \square$ $\square - 4 = 5$

$$\begin{array}{r} 7 \\ -4 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ -2 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ +3 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ -2 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ +6 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ -3 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -6 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ +4 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ -3 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ -2 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ -5 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ +2 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ -7 \\ \hline \end{array}$$

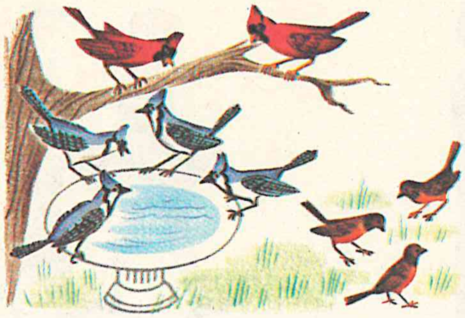
$2 + 1 + 3 = \square$ $1 + 5 + 2 = \square$

$1 + 3 + 5 = \square$ $3 + 1 + \square = 5$

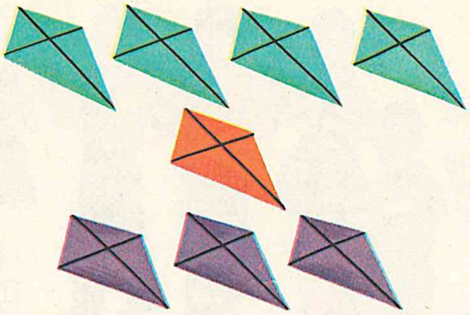
$3 + 2 + 4 = \square$ $1 + 2 + 4 = \square$

$1 + 1 + 3 = \square$ $5 + 2 + \square = 9$

NAME ____

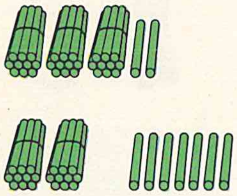


$\begin{array}{r}2\\4\\3\\\hline\end{array}$

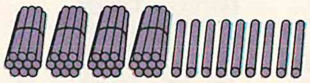


$\begin{array}{r}4\\1\\3\\\hline\end{array}$

$\begin{array}{r}2\\5\\2\\\hline\end{array}$ $\begin{array}{r}2\\3\\1\\\hline\end{array}$ $\begin{array}{r}2\\2\\4\\\hline\end{array}$ $\begin{array}{r}2\\1\\6\\\hline\end{array}$ $\begin{array}{r}3\\1\\3\\\hline\end{array}$ $\begin{array}{r}4\\2\\2\\\hline\end{array}$ $\begin{array}{r}2\\3\\4\\\hline\end{array}$



$\begin{array}{r}32\\+\ 27\\\hline\end{array}$



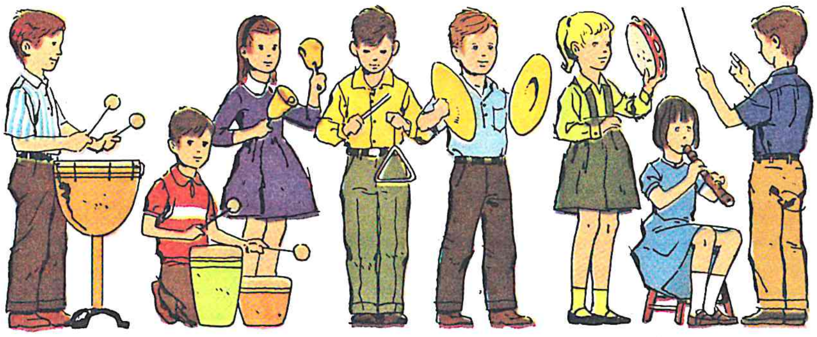
$\begin{array}{r}49\\-\ 35\\\hline\end{array}$

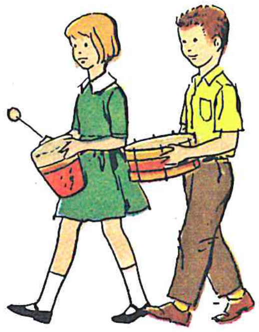
$\begin{array}{r}63\\+34\\\hline\end{array}$ $\begin{array}{r}31\\+35\\\hline\end{array}$ $\begin{array}{r}54\\+25\\\hline\end{array}$ $\begin{array}{r}43\\+46\\\hline\end{array}$ $\begin{array}{r}52\\+16\\\hline\end{array}$ $\begin{array}{r}73\\+25\\\hline\end{array}$

$\begin{array}{r}96\\-24\\\hline\end{array}$ $\begin{array}{r}86\\-53\\\hline\end{array}$ $\begin{array}{r}79\\-54\\\hline\end{array}$ $\begin{array}{r}54\\-41\\\hline\end{array}$ $\begin{array}{r}86\\-32\\\hline\end{array}$ $\begin{array}{r}75\\-31\\\hline\end{array}$

$\begin{array}{r}99\\-75\\\hline\end{array}$ $\begin{array}{r}78\\-42\\\hline\end{array}$ $\begin{array}{r}98\\-36\\\hline\end{array}$ $\begin{array}{r}53\\-21\\\hline\end{array}$ $\begin{array}{r}86\\-45\\\hline\end{array}$ $\begin{array}{r}97\\-62\\\hline\end{array}$

NAME ____





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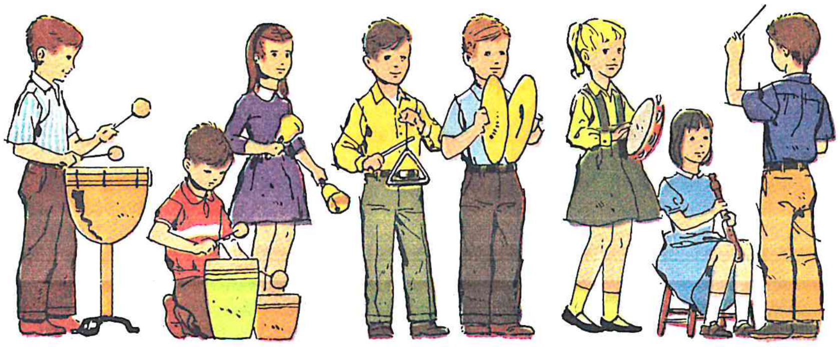
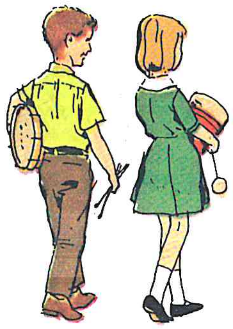
___ + ___ = ___





___ − ___ = ___

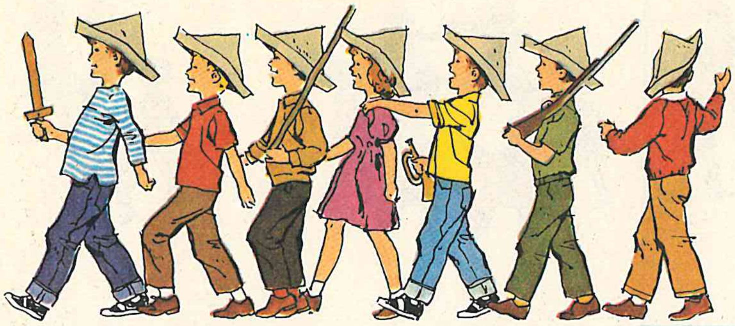
___ − ___ = ___

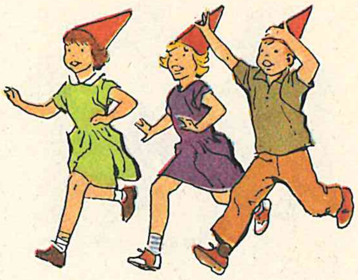
$$\begin{array}{r} 8 \\ +2 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ +8 \\ \hline \end{array} \qquad \begin{array}{r} 10 \\ -2 \\ \hline \end{array} \qquad \begin{array}{r} 10 \\ -8 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ +6 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ +5 \\ \hline \end{array} \qquad \begin{array}{r} 9 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ -6 \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ -4 \\ \hline \end{array} \qquad \begin{array}{r} 9 \\ -5 \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ -3 \\ \hline \end{array} \qquad \begin{array}{r} 9 \\ -7 \\ \hline \end{array} \qquad \begin{array}{r} 7 \\ -5 \\ \hline \end{array} \qquad \begin{array}{r} 9 \\ -4 \\ \hline \end{array}$$

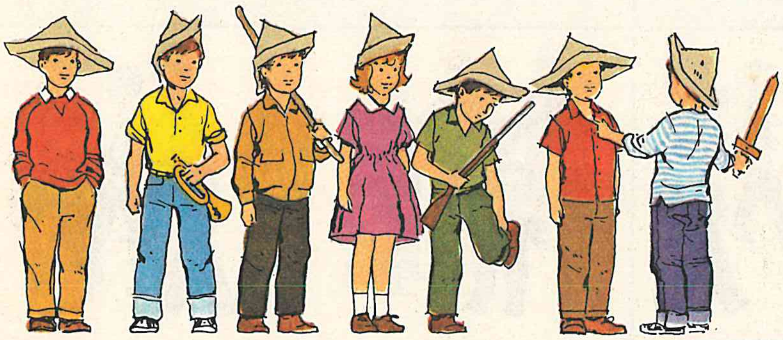
$$\begin{array}{r} 1 \\ 5 \\ 3 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ 1 \\ 5 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ 6 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ 2 \\ 1 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ 1 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ 1 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ 1 \\ 8 \\ \hline \end{array}$$

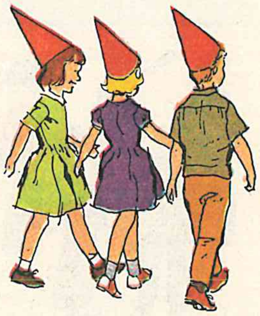
NAME ______________________________





____ + ____ = ____   ____ + ____ = ____





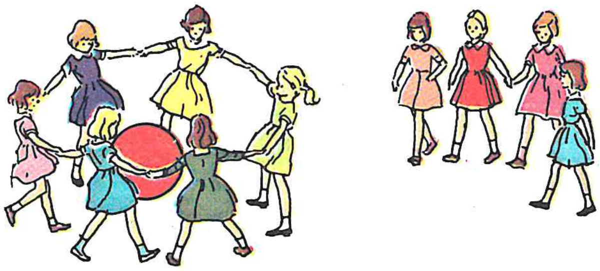
____ − ____ = ____   ____ − ____ = ____

7	3	10	10	9	2	9
+3	+7	−3	−7	−3	+7	−6

8	7	9	10	8	9	10
−2	−3	−4	−2	−5	−2	−8

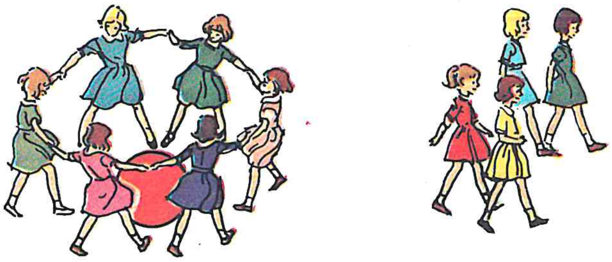
4	2	3	2	4	1	2
1	1	1	5	3	4	1
4	2	2	3	2	3	7

NAME ____



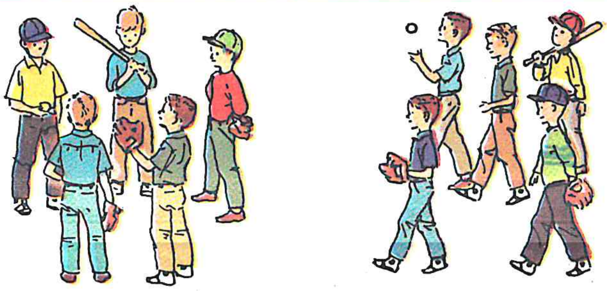
____ + ____ = ____

____ + ____ = ____

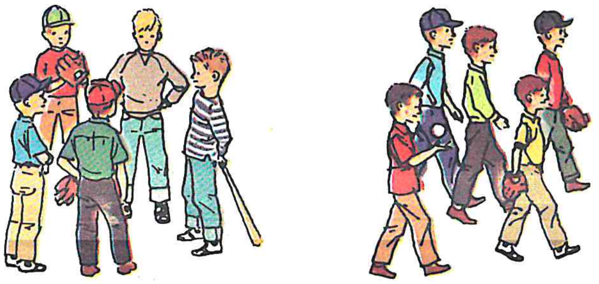


____ − ____ = ____

____ − ____ = ____



____ + ____ = ____



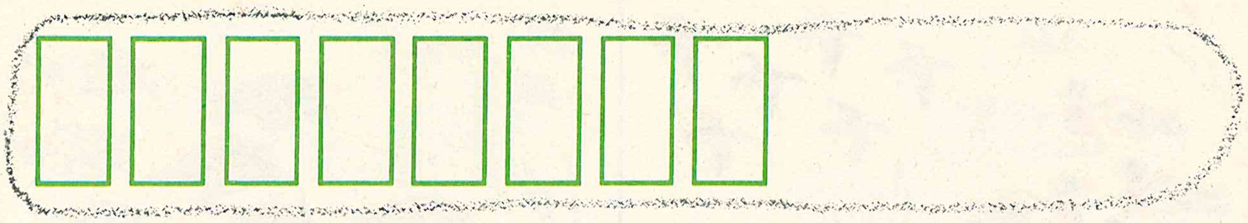
____ − ____ = ____

6	4	10	10	5	10	9
+4	+6	−4	−6	+5	−5	−5

9	10	8	10	7	10	9
−4	−8	−6	−7	−4	−3	−7

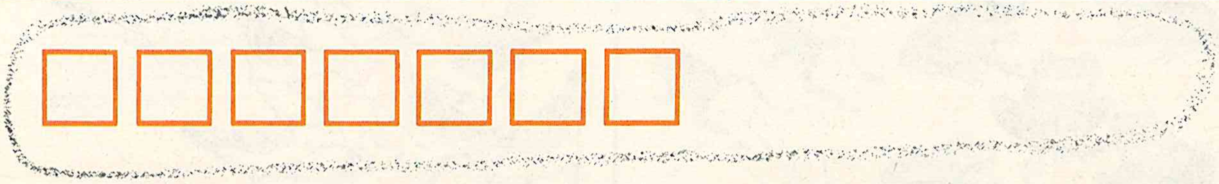
2	2	5	3	1	2	2
3	4	1	5	2	2	4
5	2	3	2	6	6	2

NAME ______________________________



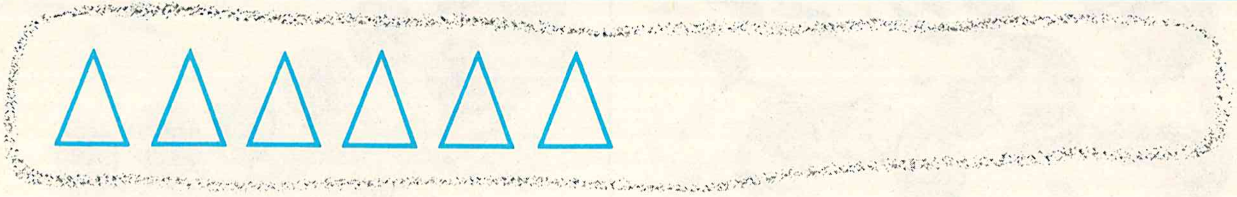
___ + ___ = 10 ___ + ___ = 10

___ − 2 = ___ ___ − 8 = ___



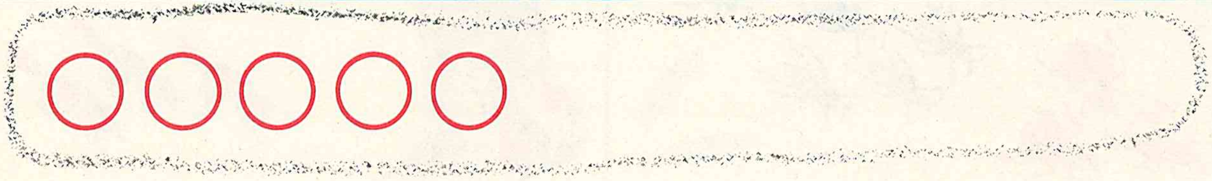
___ + ___ = 10 ___ + ___ = 10

___ − 3 = ___ ___ − 7 = ___



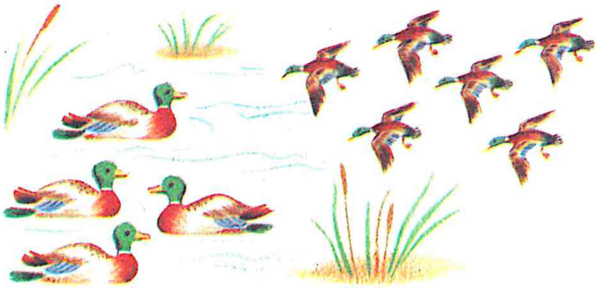
___ + ___ = 10 ___ + ___ = 10

___ − 4 = ___ ___ − 6 = ___

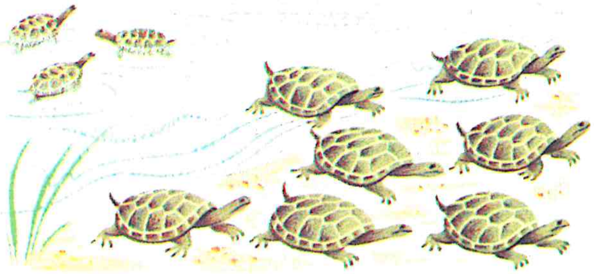


___ + ___ = 10 ___ − 5 = ___

NAME ____



____ ____ = ____



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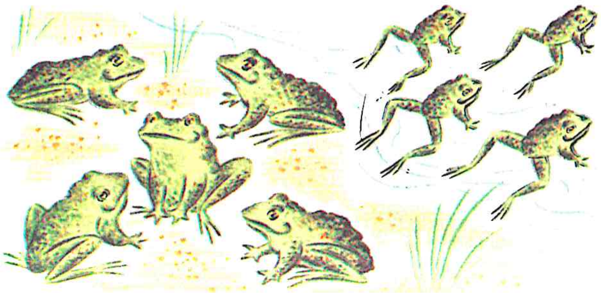

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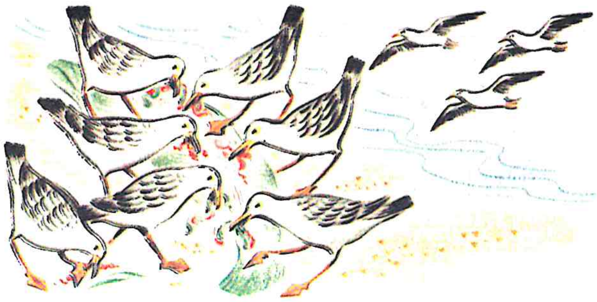

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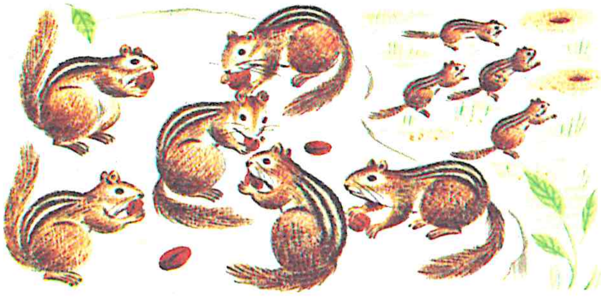

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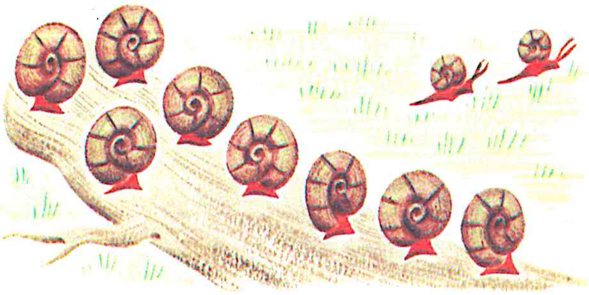

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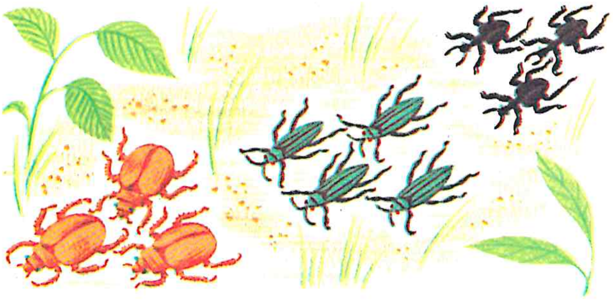
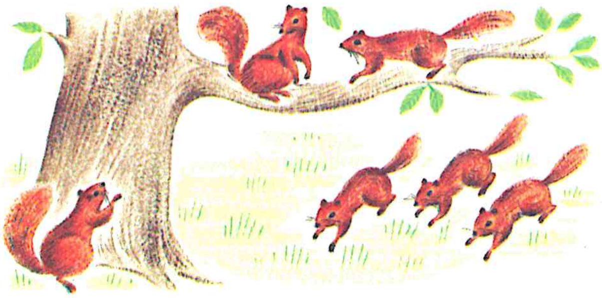
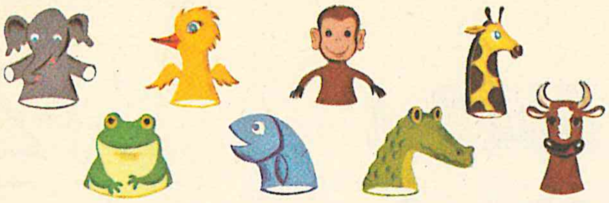


____ + ____ + ____ = ____

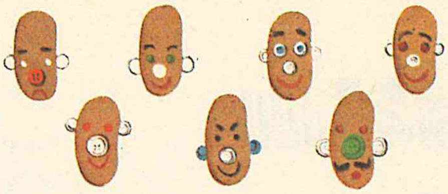


____ + ____ + ____ = ____

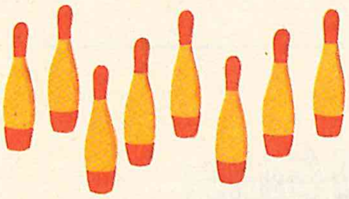
NAME ____



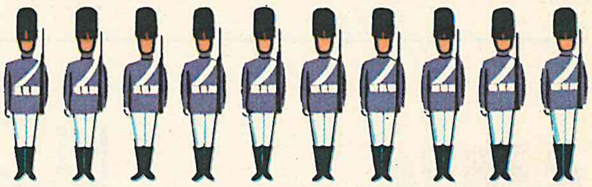
____ ____ = ____



____ ____ = ____



____ ____ = ____



____ ____ = ____

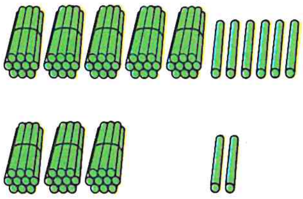
8	9	10	8	10	9	10
− 2	− 7	− 4	− 6	− 5	− 5	− 2

10	9	10	8	10	9	10
− 6	− 4	− 8	− 3	− 7	− 6	− 3

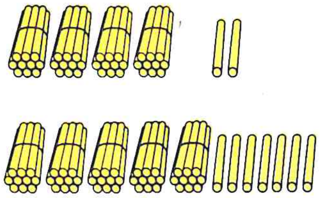
3	4	2	3	2	3	7
+ 7	+ 5	+ 7	+ 5	+ 8	+ 6	+ 3

1	5	1	4	1	4	4
5	2	4	2	3	1	4
4	2	5	3	6	4	2

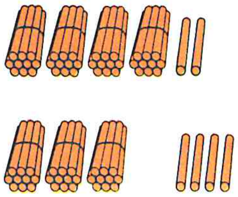
NAME ______________________________



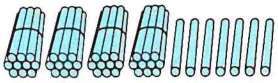
56
+ 32



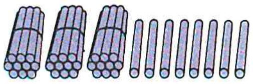
42
+ 57



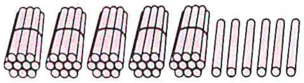
42
+ 34



47
− 22



38
− 16



56
− 35

35	37	24	31	35	62
+64	+52	+54	+25	+42	+31

98	79	89	78	99	89
−44	−52	−56	−42	−53	−37

NAME ____

$4 + \square = 10$ $\square + 4 = 10$

$5 + 4 = \square$ $4 + 5 = \square$

$\square + 3 = 10$ $3 + \square = 10$

$\square + 8 = 10$ $8 + \square = 10$

$$\begin{array}{r} 9 \\ -4 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ -2 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ +7 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ -6 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ -3 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ +8 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ +6 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ -7 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ -2 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ +6 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ -4 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ -3 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ -3 \\ \hline \end{array}$$

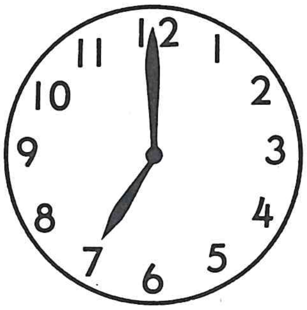
$$\begin{array}{r} 10 \\ -5 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ +2 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ -4 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ -5 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ -2 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ +7 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ -8 \\ \hline \end{array}$$

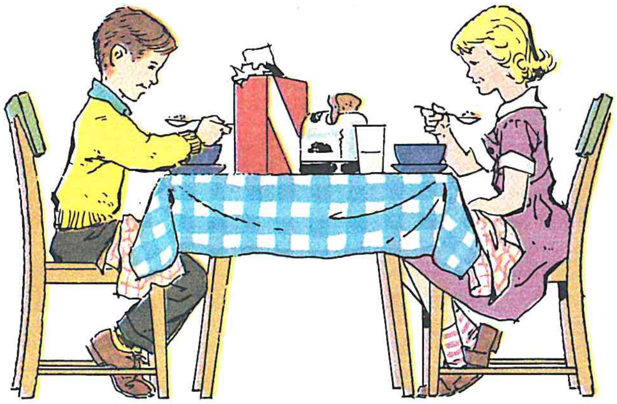
$3 + 2 + 5 = \square$ $1 + 4 + 4 = \square$

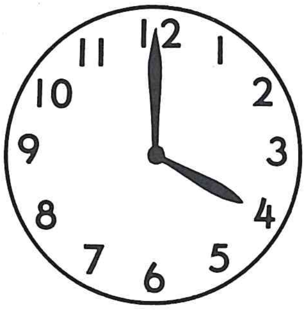
$1 + 1 + 6 = \square$ $5 + 2 + \square = 10$

$2 + 1 + \square = 7$ $4 + 1 + 3 = \square$

NAME ____







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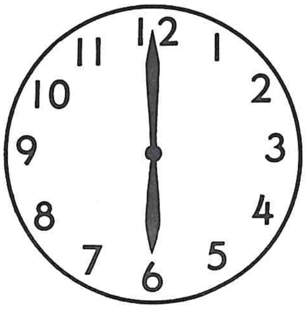

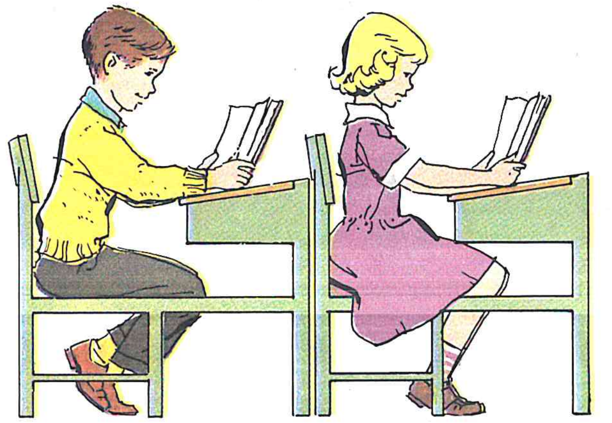

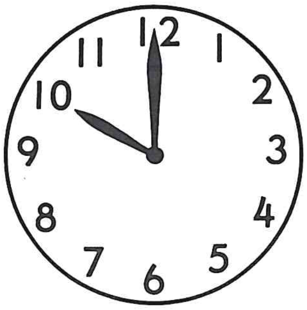

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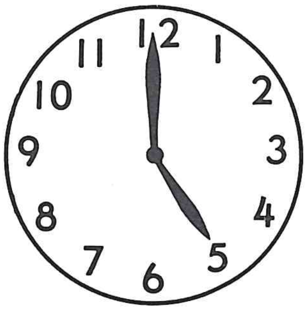

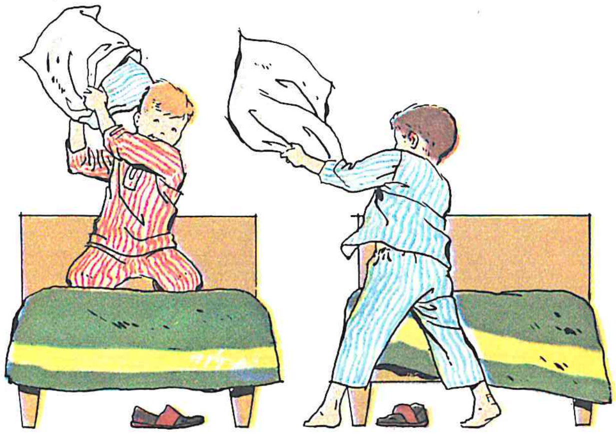

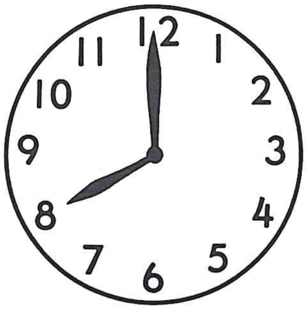

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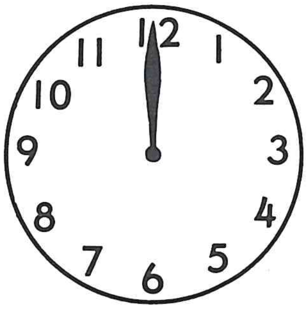

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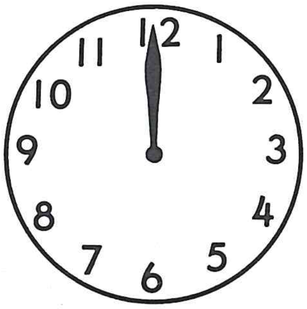

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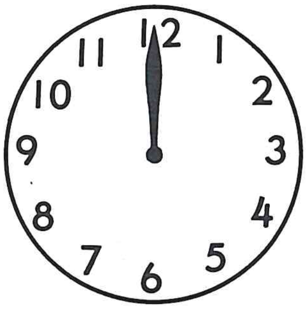

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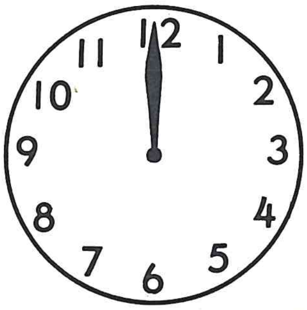

11

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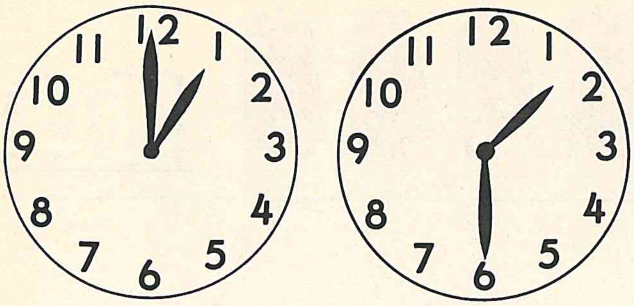
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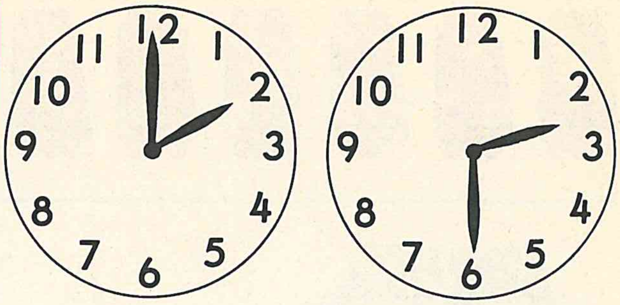
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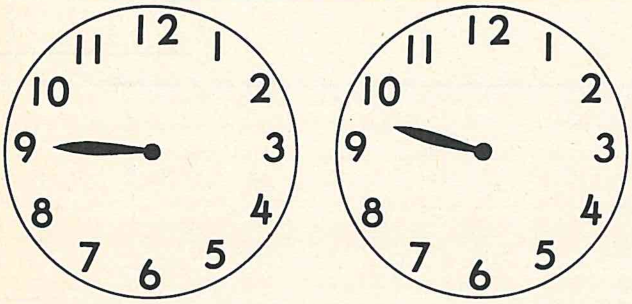
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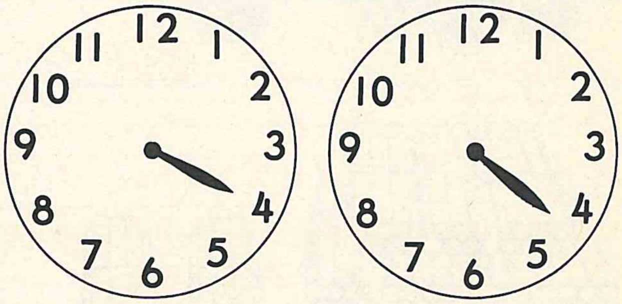
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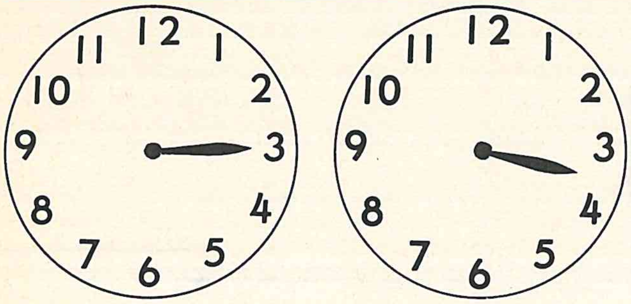
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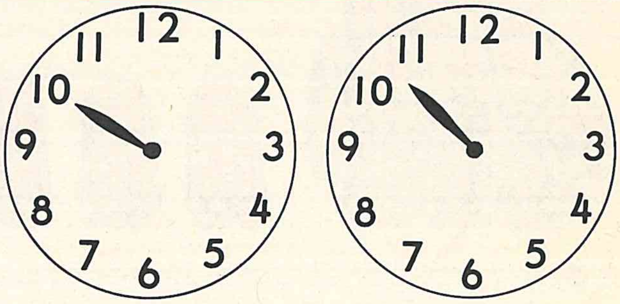
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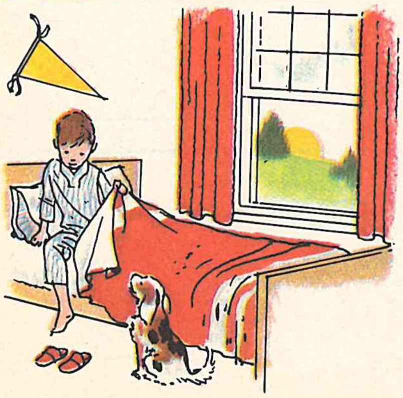

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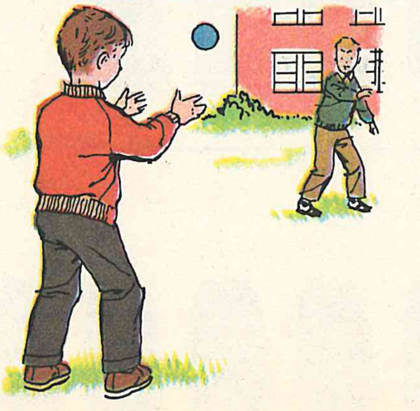

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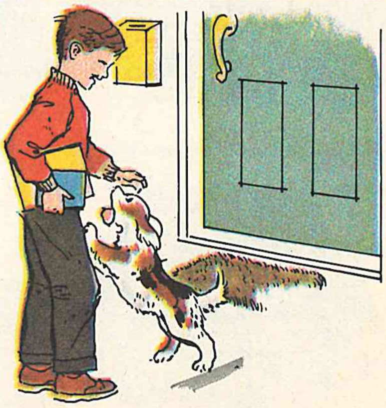

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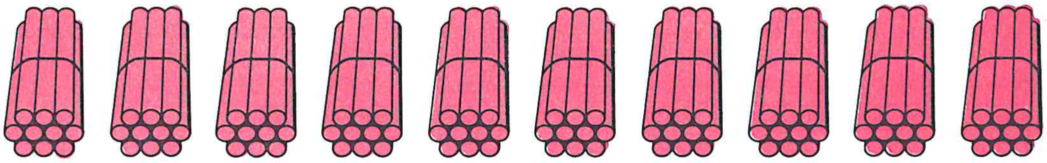

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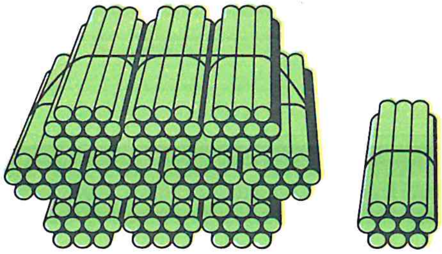

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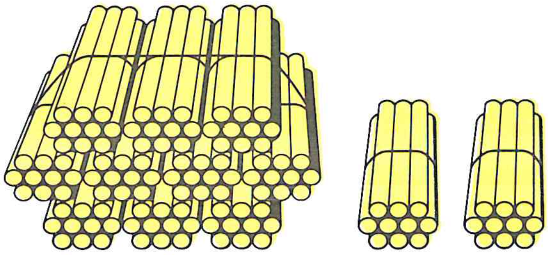

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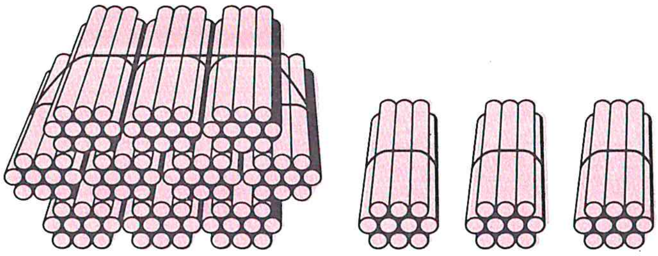

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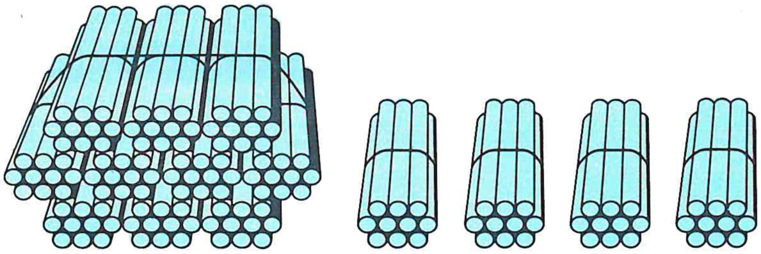

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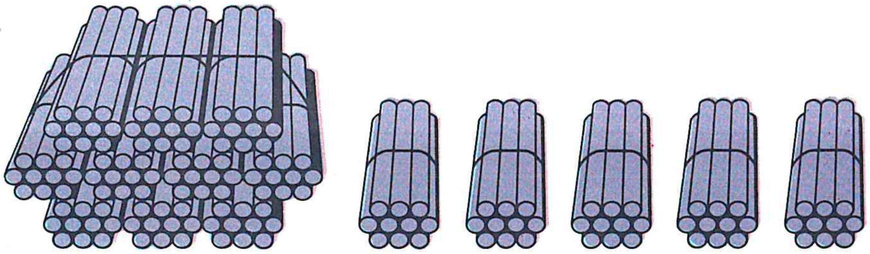

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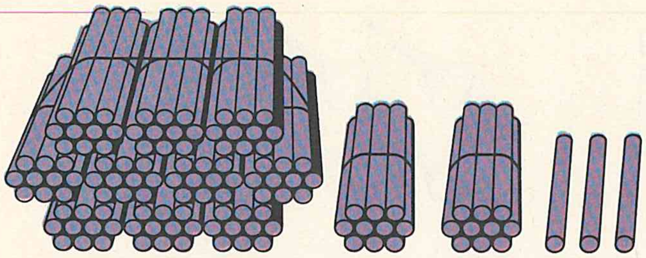

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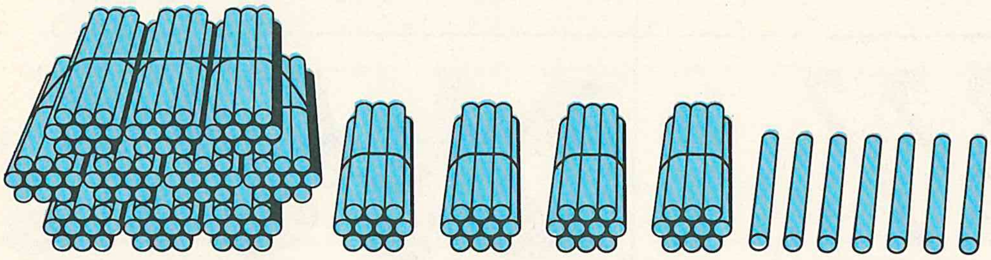

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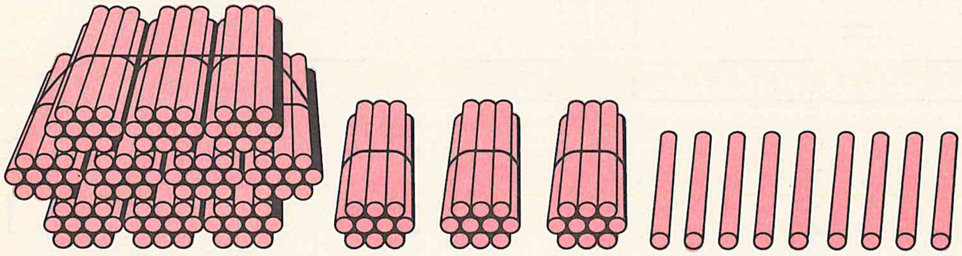

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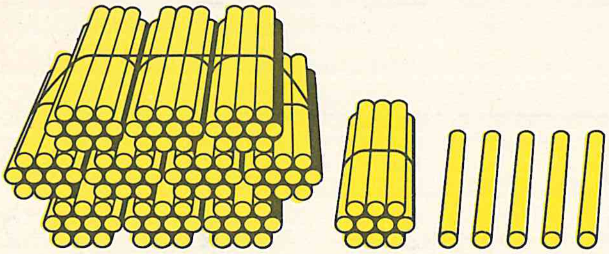

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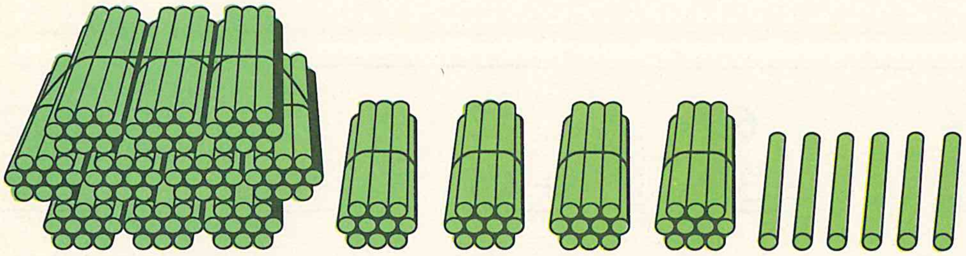

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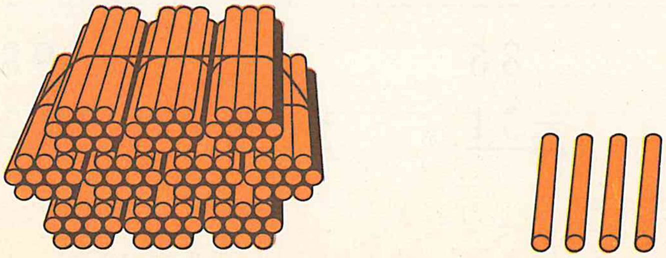

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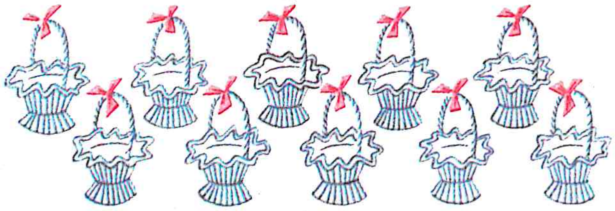

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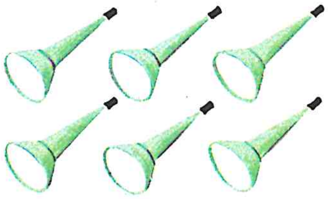

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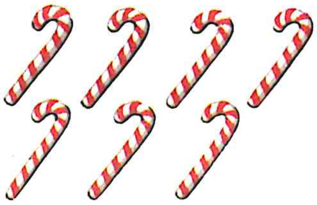

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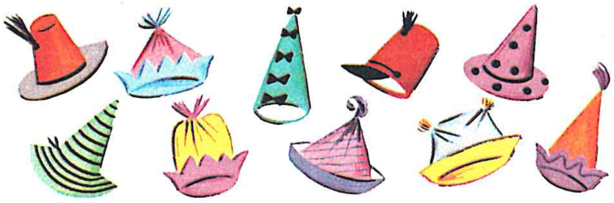


____ ____ = ____

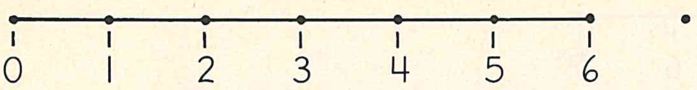
1	2	3	4	6	1	3
2	6	2	1	2	5	1
7	2	3	5	2	3	6

10	8	10	10	9	10	10
− 6	− 2	− 5	− 3	− 5	− 4	− 2

61	54	62	42	31	52
+ 24	+ 42	+ 37	+ 45	+ 63	+ 34

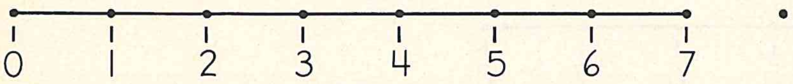
75	97	79	86	95	98
− 52	− 23	− 24	− 31	− 53	− 62

NAME ____________________



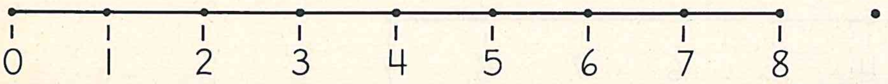
6 + 1 = ☐

1 + 6 = ☐



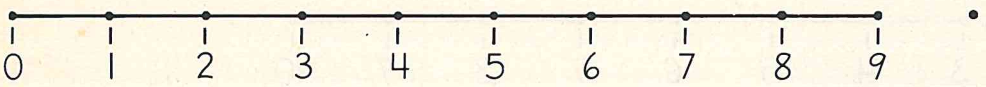
7 + 1 = ☐

1 + 7 = ☐



8 + 1 = ☐

1 + 8 = ☐


0
1
2
3
4
5
6
7
8
9

9 + 1 = ☐

1 + 9 = ☐

6 + 1 = ☐

7 + 1 = ☐

8 + 1 = ☐

9 + 1 = ☐

5 + 4 = ☐

8 + 2 = ☐

1 + 7 = ☐

1 + 8 = ☐

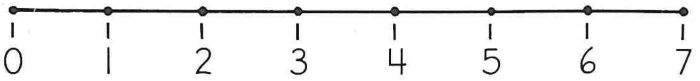
1 + 9 = ☐

1 + 6 = ☐

2 + 8 = ☐

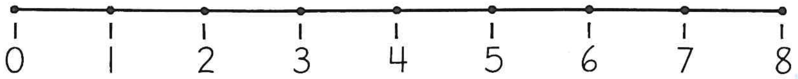
6 + 4 = ☐

NAME ____________________



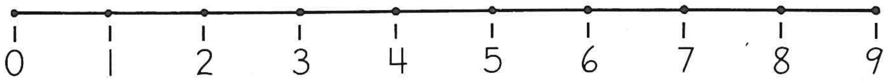
7 − 1 = ☐

7 − 6 = ☐



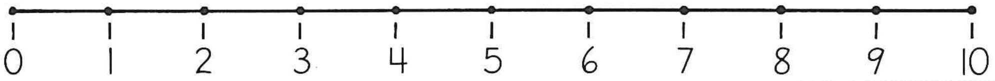
8 − 1 = ☐

8 − 7 = ☐



9 − 1 = ☐

9 − 8 = ☐



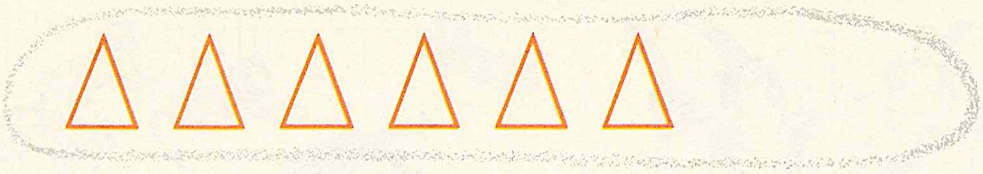
10 − 1 = ☐

10 − 9 = ☐

$\begin{array}{r} 7 \\ -1 \\ \hline \end{array}$ $\begin{array}{r} 7 \\ -6 \\ \hline \end{array}$ $\begin{array}{r} 8 \\ -1 \\ \hline \end{array}$ $\begin{array}{r} 8 \\ -7 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ -1 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ -8 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ -1 \\ \hline \end{array}$

$\begin{array}{r} 10 \\ -9 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ -4 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ -7 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ -7 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ -5 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ -3 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ -6 \\ \hline \end{array}$

NAME ____

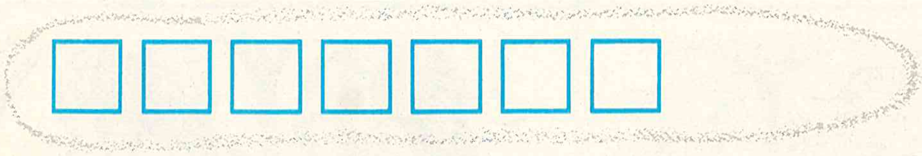


___ + ___ = 7

___ − 1 = ___

___ + ___ = 7

___ − 6 = ___

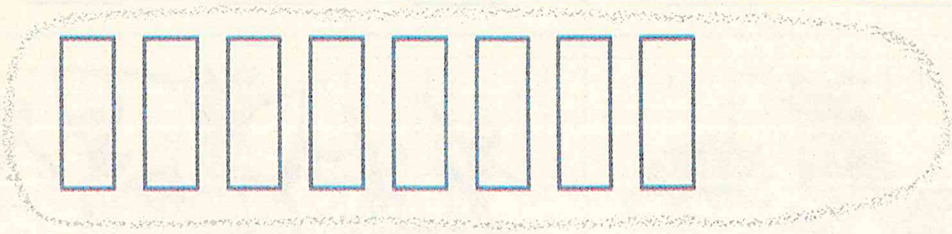


___ + ___ = 8

___ − 1 = ___

___ + ___ = 8

___ − 7 = ___

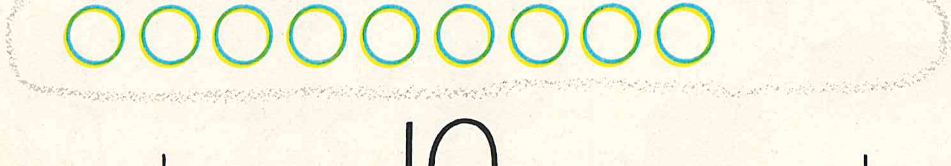


___ + ___ = 9

___ − 1 = ___

___ + ___ = 9

___ − 8 = ___



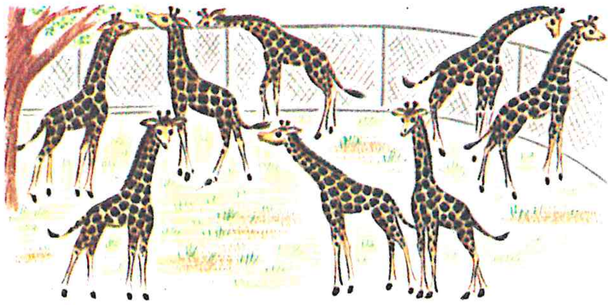
___ + ___ = 10

___ − 1 = ___

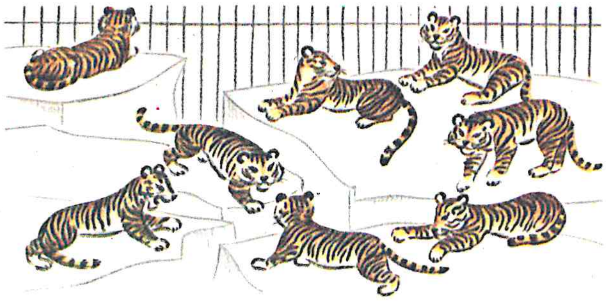
___ + ___ = 10

___ − 9 = ___

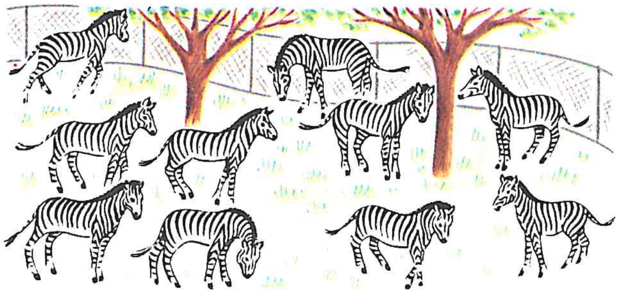
NAME ____________________



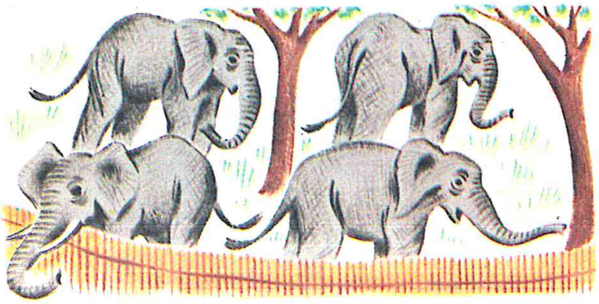
____ ____ = ____



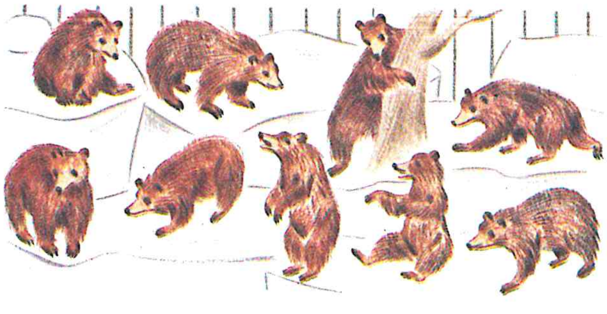
____ ____ = ____



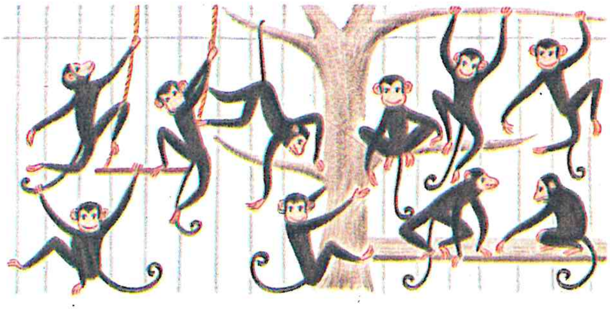
____ ____ = ____



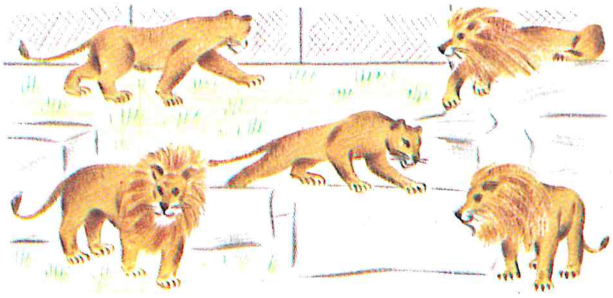
____ ____ = ____



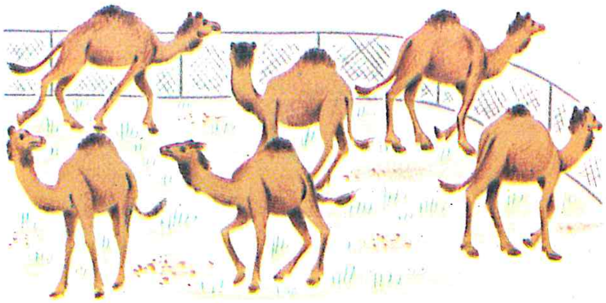
____ ____ = ____



____ ____ = ____

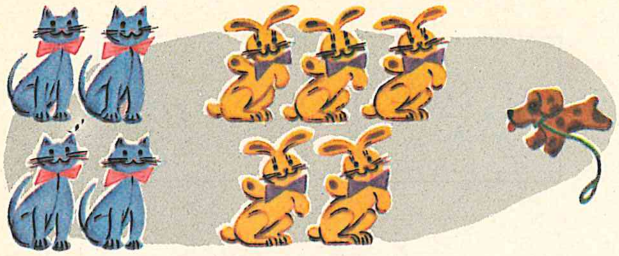


____ ____ = ____

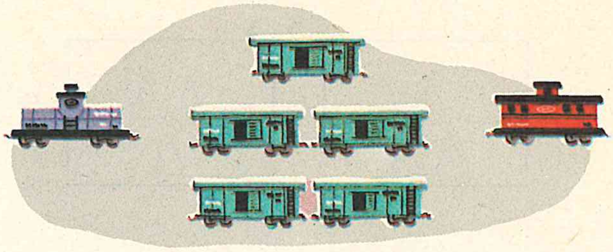


____ ____ = ____

NAME ____



____ + ____ + ____ = ____



____ + ____ + ____ = ____

7	1	2	3	4	3	1
1	8	2	5	2	2	7
2	1	6	1	1	5	1

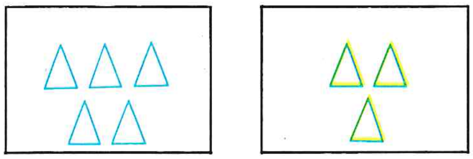
2	1	1	2	8	3	6
4	1	6	1	1	4	1
4	8	1	7	1	1	3

10	8	10	7	10	8	9
− 7	− 5	− 1	− 6	− 2	− 7	− 6

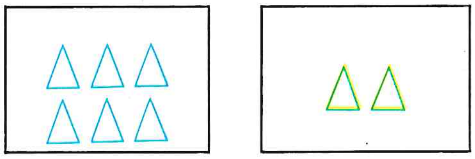
10	6	8	10	7	9	10
− 8	− 5	− 1	− 6	− 3	− 1	− 5

10	9	7	10	8	10	9
− 3	− 2	− 1	− 9	− 3	− 4	− 8

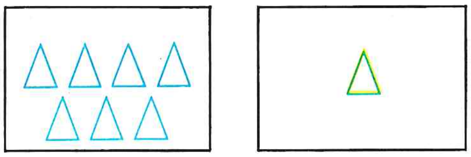
NAME ____



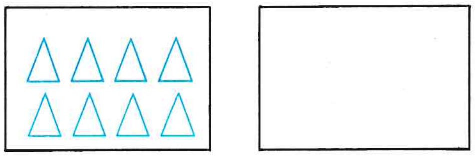
___ + ___ = ___



___ + ___ = ___



___ + ___ = ___



___ + ___ = ___

5 + 4 = ☐

6 + 3 = ☐

7 + 2 = ☐

8 + 1 = ☐

9 + 0 = ☐

5 + 5 = ☐

4 + 6 = ☐

3 + 7 = ☐

2 + 8 = ☐

1 + 9 = ☐

0 + 10 = ☐

4 + ☐ = 8

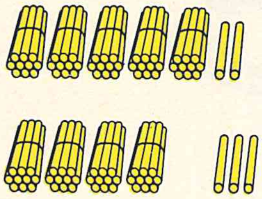
5 + ☐ = 8

6 + ☐ = 8

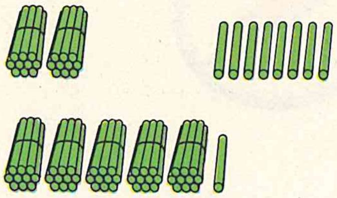
7 + ☐ = 8

8 + ☐ = 8

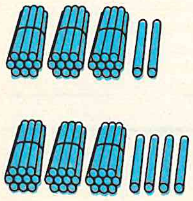
NAME ______________________________



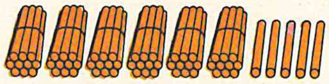
$$\begin{array}{r} 52 \\ +\ 43 \\ \hline \end{array}$$



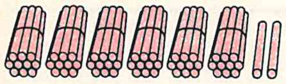
$$\begin{array}{r} 28 \\ +\ 51 \\ \hline \end{array}$$



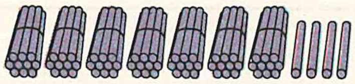
$$\begin{array}{r} 32 \\ +\ 34 \\ \hline \end{array}$$



$$\begin{array}{r} 65 \\ -\ 32 \\ \hline \end{array}$$



$$\begin{array}{r} 62 \\ -\ 21 \\ \hline \end{array}$$

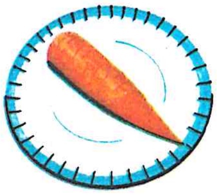


$$\begin{array}{r} 74 \\ -\ 63 \\ \hline \end{array}$$

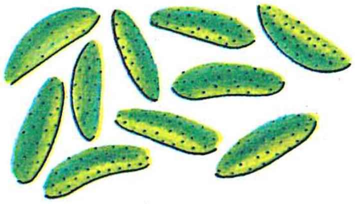
$$\begin{array}{r} 71 \\ +27 \\ \hline \end{array} \qquad \begin{array}{r} 43 \\ +54 \\ \hline \end{array} \qquad \begin{array}{r} 34 \\ +64 \\ \hline \end{array} \qquad \begin{array}{r} 62 \\ +16 \\ \hline \end{array} \qquad \begin{array}{r} 53 \\ +35 \\ \hline \end{array}$$

$$\begin{array}{r} 98 \\ -83 \\ \hline \end{array} \qquad \begin{array}{r} 89 \\ -54 \\ \hline \end{array} \qquad \begin{array}{r} 78 \\ -12 \\ \hline \end{array} \qquad \begin{array}{r} 99 \\ -25 \\ \hline \end{array} \qquad \begin{array}{r} 89 \\ -43 \\ \hline \end{array}$$

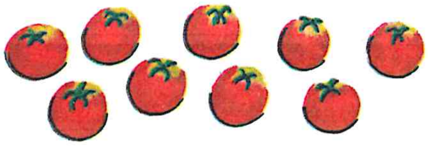
NAME ______________________________



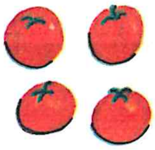
____ ____ = ____



____ ____ = ____



____ ____ = ____



____ ____ ____ = ____

5	1	7	3	1	1	1
1	6	1	3	6	7	8
2	1	2	3	3	1	1

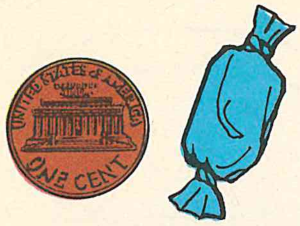
10	9	1	10	9	2	10
− 4	− 7	+ 7	− 2	− 5	+ 8	− 6

10	2	9	10	1	9	10
− 7	+ 7	− 3	− 9	+ 8	− 4	− 3

9 − 1 = ☐ 10 − 8 = ☐ 4 + 6 = ☐

7 − 6 = ☐ 3 + 7 = ☐ 8 − 1 = ☐

NAME ______________________________



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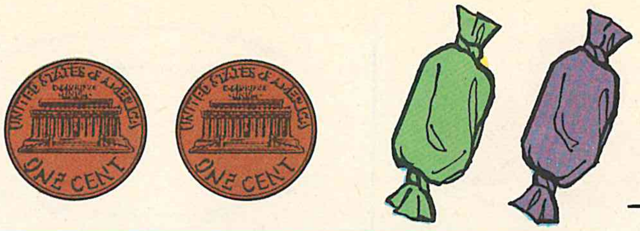

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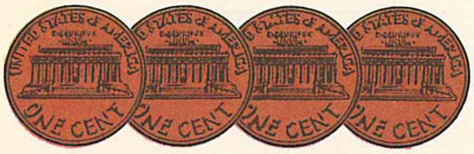

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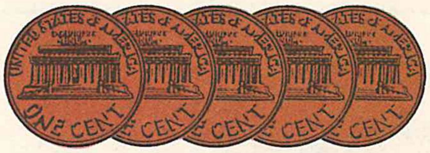

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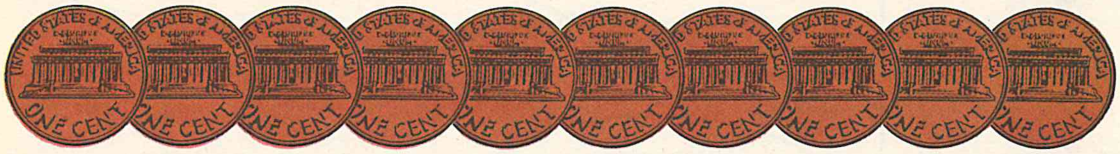

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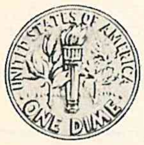

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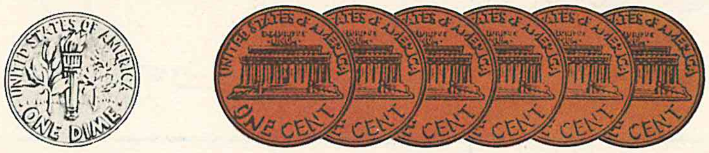

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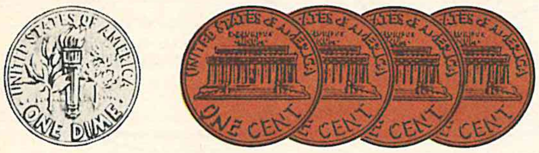

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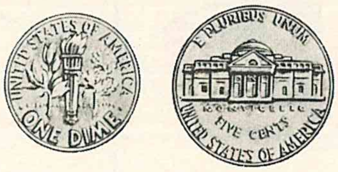

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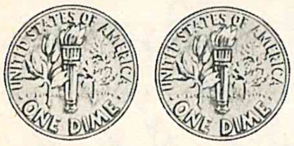

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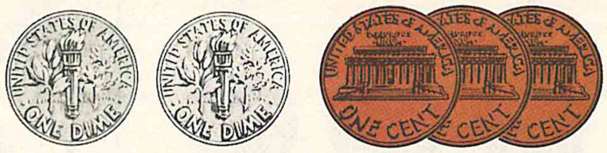

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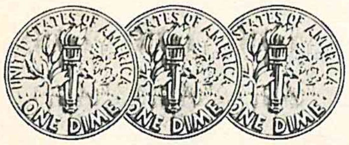

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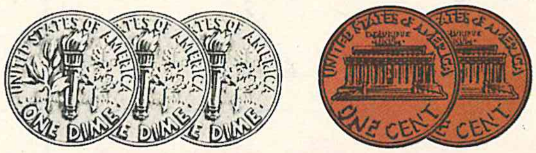

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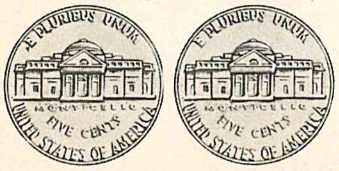

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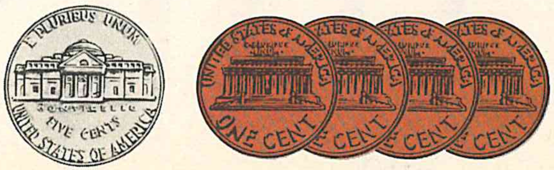

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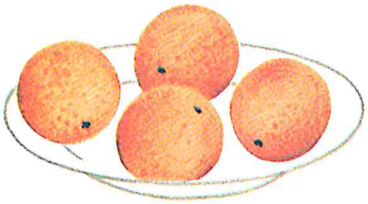
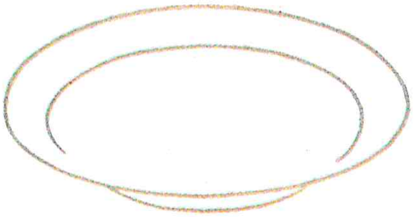
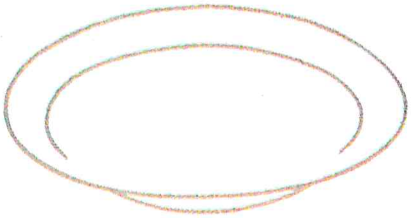
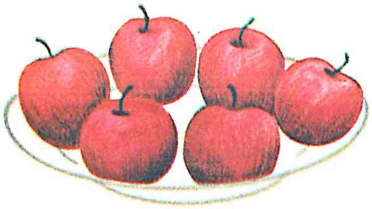
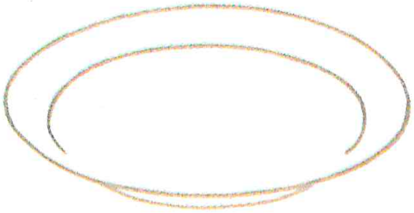
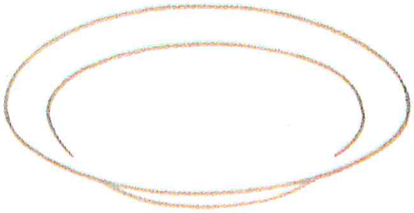
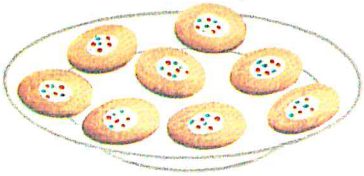
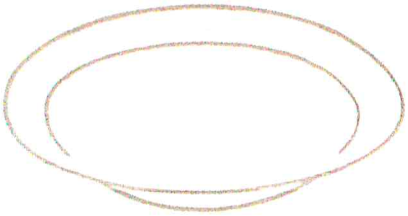
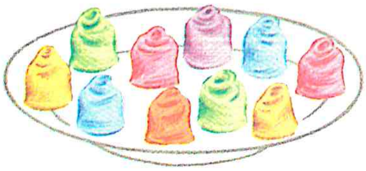
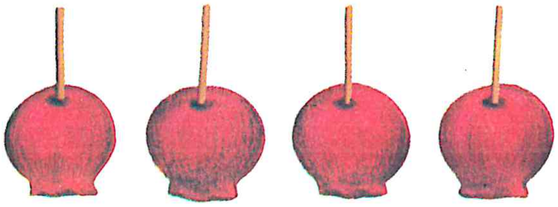
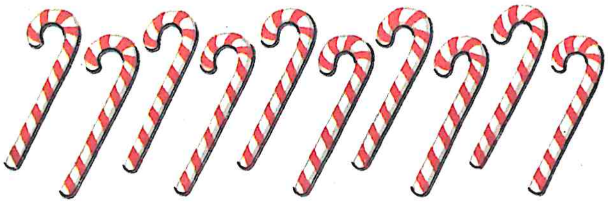
NAME ______________________________

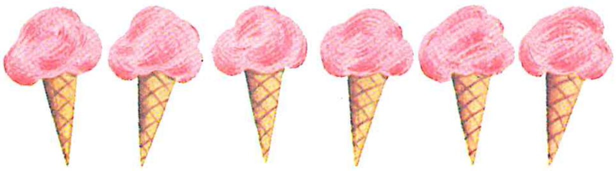





2 and 2



____ and ____



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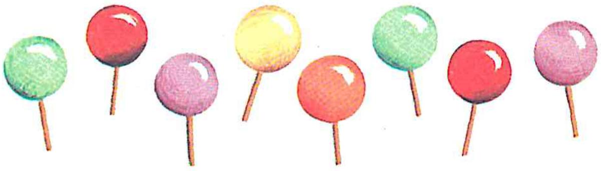

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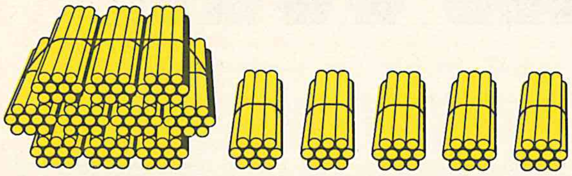
NAME ____

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150



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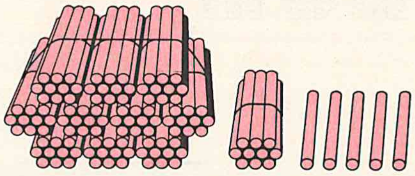

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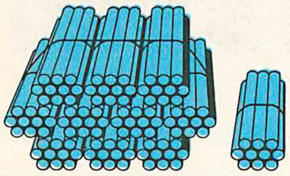

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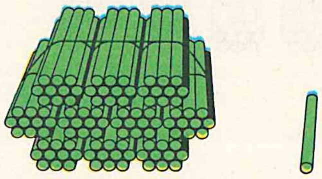

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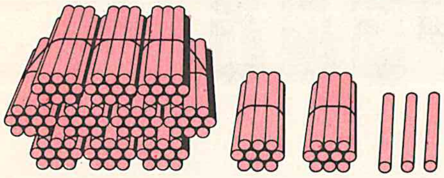

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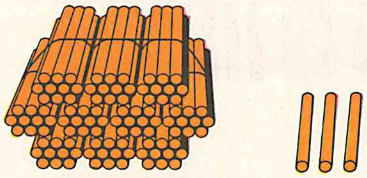

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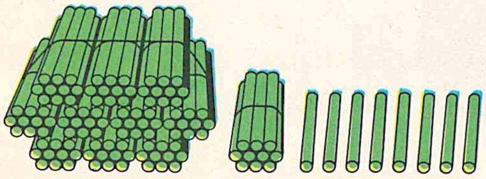

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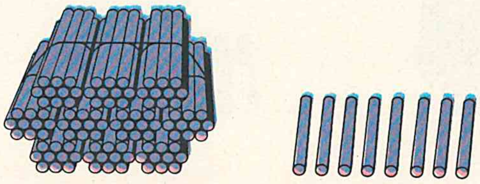

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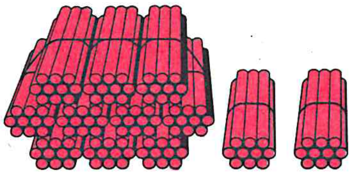
NAME ______________________________



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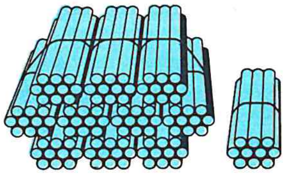

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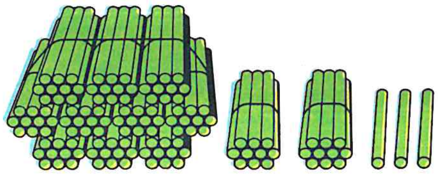

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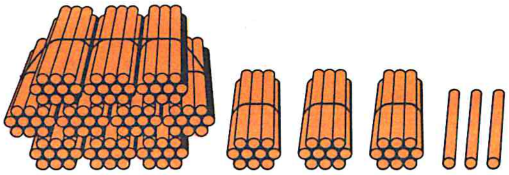

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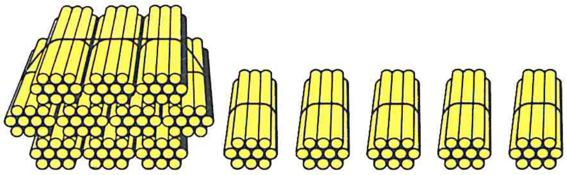

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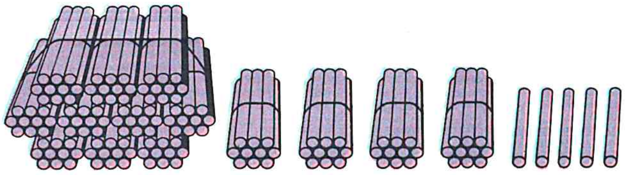

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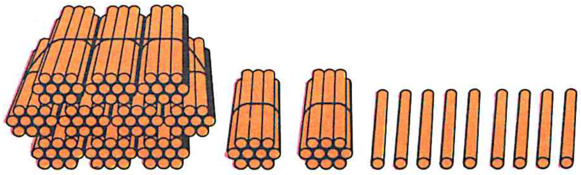

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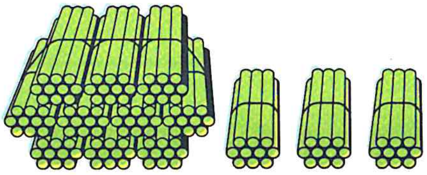

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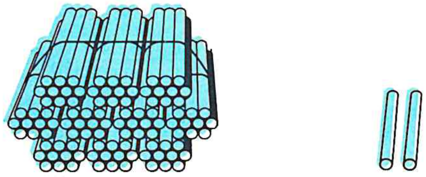

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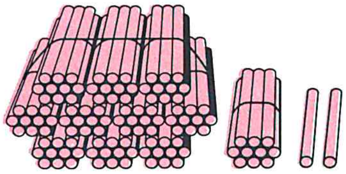

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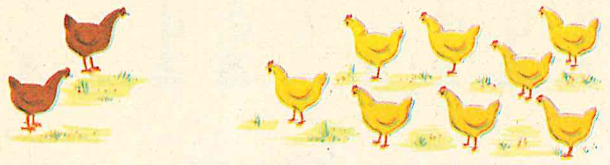

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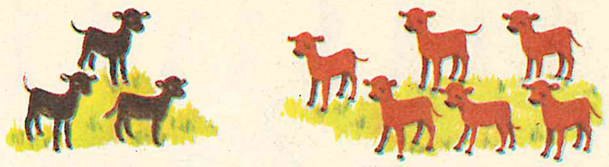
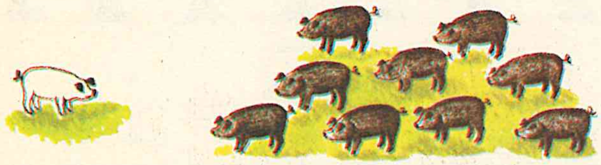
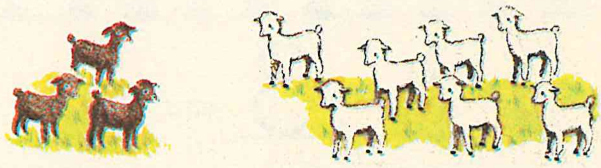


___ + ___ = ___



___ + ___ = ___



___ + ___ = ___

1	2	2	7	5	1	2
6	7	3	2	1	7	6
3	1	5	1	1	2	1

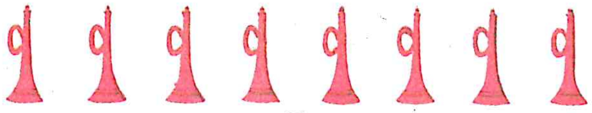
64	51	24	31	33	41
+31	+24	+15	+67	+15	+48

41	52	31	76	52	63
+21	+34	+25	+21	+42	+24

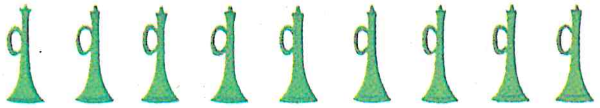
2 + 5 + 1 = ☐ 3 + 3 + 4 = ☐ 3 + 6 = ☐

4 + 3 + 1 = ☐ 1 + 3 + 6 = ☐ 7 + 2 = ☐

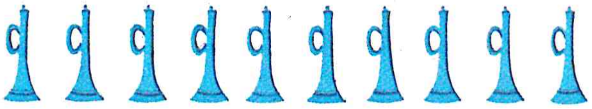
NAME ______________________________



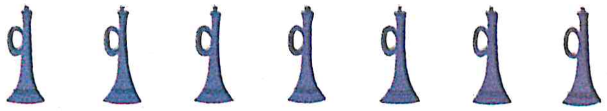
___ − 2 = ___



___ − 6 = ___



___ − 3 = ___



___ − 5 = ___

10	9	10	10	8	10	10
− 6	− 4	− 1	− 3	− 7	− 8	− 5

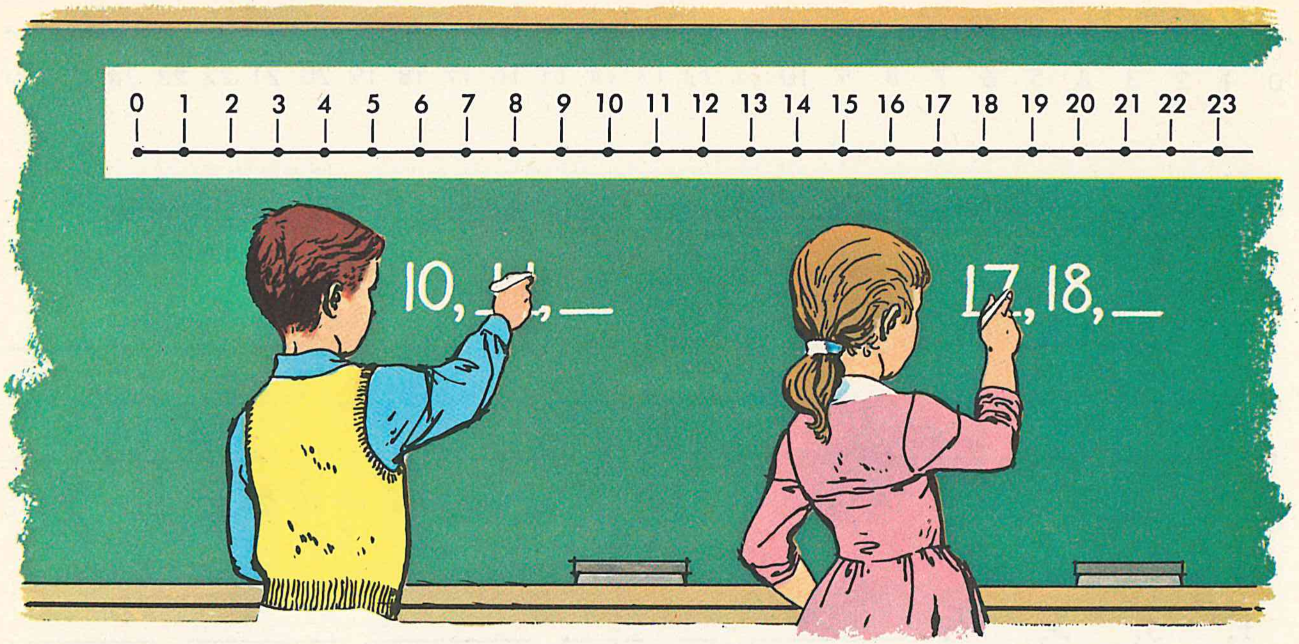
10	8	10	9	10	9	10
− 9	− 5	− 2	− 6	− 4	− 1	− 7

86	89	75	48	96	52
− 41	− 21	− 32	− 26	− 72	− 41

89	83	99	67	94	75
− 18	− 32	− 48	− 31	− 53	− 61

95	77	64	98	76	37
− 33	− 51	− 41	− 27	− 45	− 12

NAME ______________________________


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
10, 11, __
17, 18, __

9, _____

12, _____

15, _____

18, _____

20, _____

22, _____

_____, 10

_____, 14

_____, 16

_____, 20

_____, 21

_____, 23

8, _____, _____

18, _____, _____

_____, _____, 12

_____, _____, 21

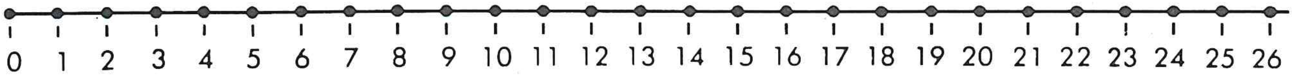
_____, 9, _____

_____, 11, _____

_____, 17, _____

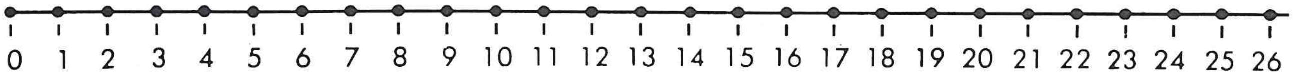
_____, 20, _____

NAME ____


0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

0, 2, 4, 6, ______, ______, ______, ______, ______

10, 12, 14, 16, ______, ______, ______, ______, ______

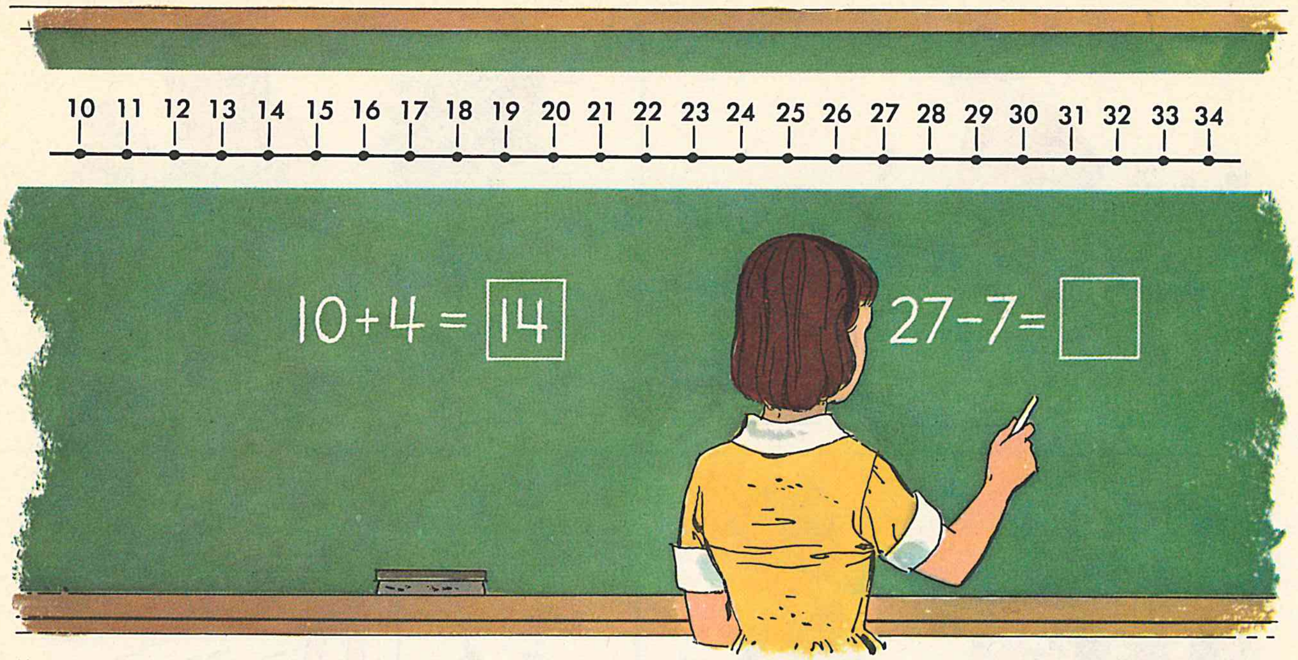

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

1, 3, 5, 7, ______, ______, ______, ______, ______

11, 13, 15, 17, ______, ______, ______, ______, ______

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

NAME ____


10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
10+4 = 14
27-7=

10 + 1 = ☐

10 + 8 = ☐

10 + 6 = ☐

10 + 7 = ☐

16 − 6 = ☐

14 − 4 = ☐

28 − 8 = ☐

19 − 9 = ☐

20 + 9 = ☐

20 + 5 = ☐

20 + 4 = ☐

10 + 10 = ☐

33 − 3 = ☐

29 − 9 = ☐

17 − 7 = ☐

30 − 10 = ☐

30 + 3 = ☐

30 + 1 = ☐

30 + 2 = ☐

20 + 10 = ☐

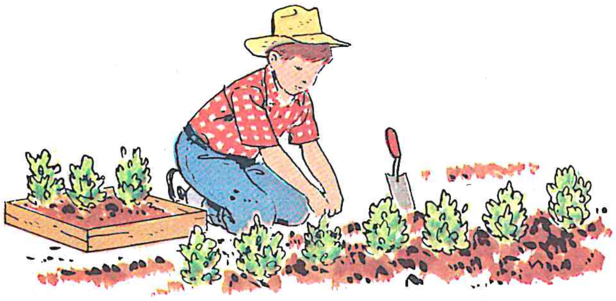
25 − 5 = ☐

31 − 1 = ☐

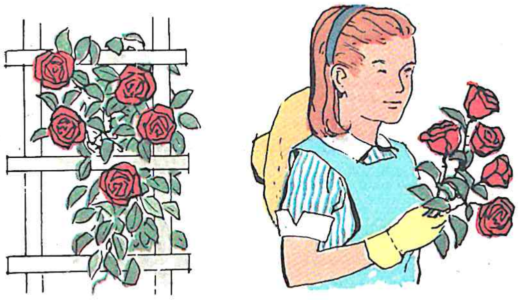
32 − 2 = ☐

20 − 10 = ☐

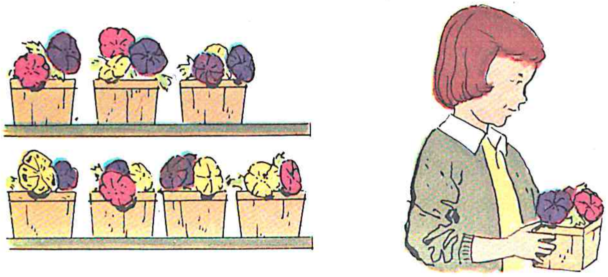
NAME ____



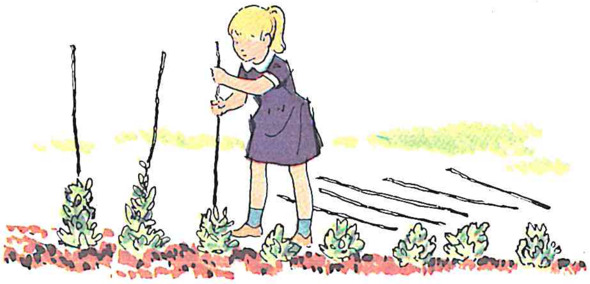
_____ _____ = _____



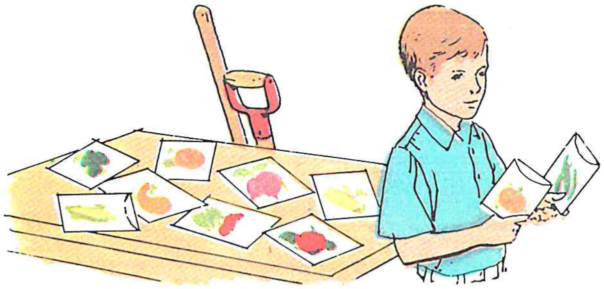
_____ _____ = _____



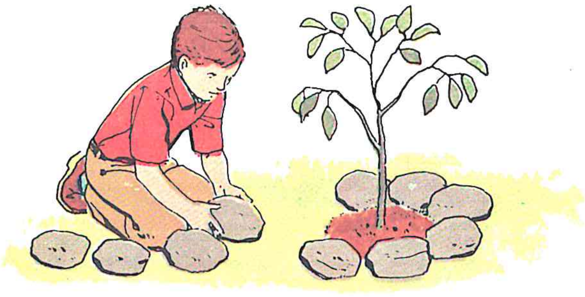
_____ _____ = _____



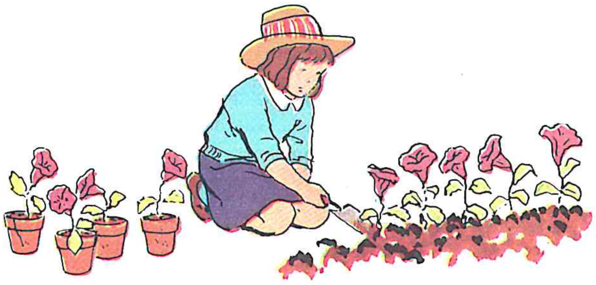
_____ _____ = _____



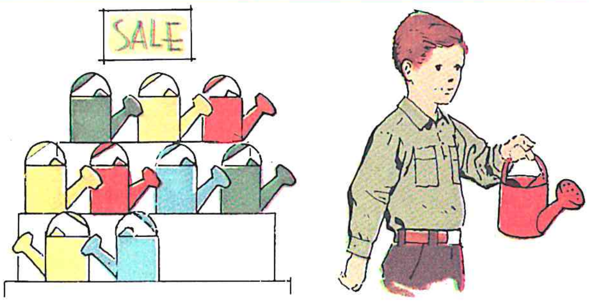
_____ _____ = _____



_____ _____ = _____

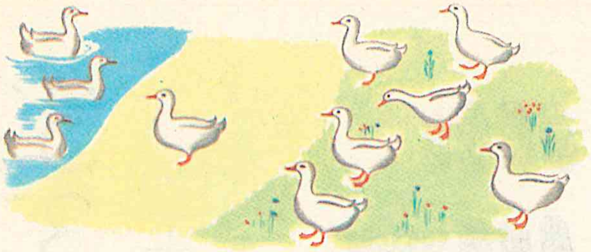


_____ _____ = _____

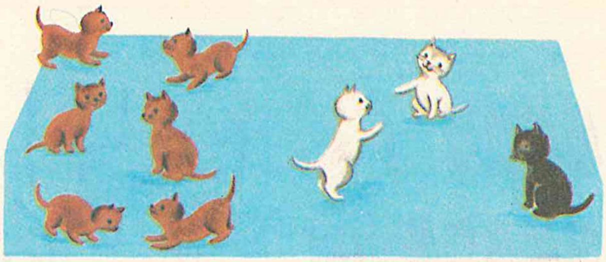


_____ _____ = _____

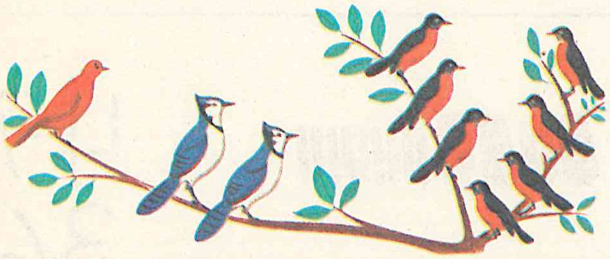
NAME ____________________



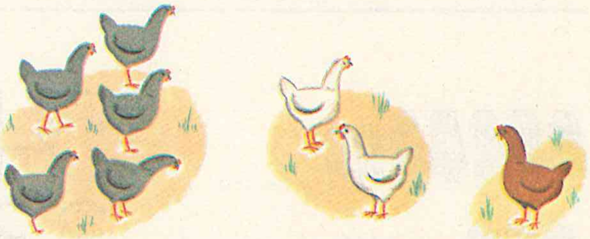
____ + ____ + ____ = ____



____ + ____ + ____ = ____



____ + ____ + ____ = ____



____ + ____ + ____ = ____

5	7	6	4	7	2	4
1	1	2	3	2	2	2
4	1	2	3	1	1	4

5	4	1	2	6	2	5
3	4	3	4	1	4	4
2	1	5	4	2	1	1

1 + 4 + 5 = ☐

1 + 1 + ☐ = 9

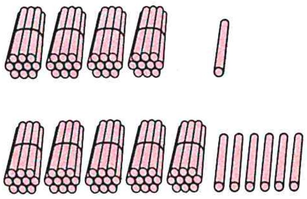
1 + 3 + 1 = ☐

3 + 3 + 1 = ☐

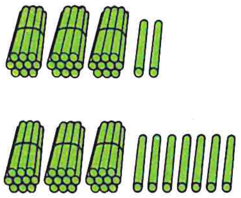
5 + 2 + 3 = ☐

6 + ☐ + 1 = 10

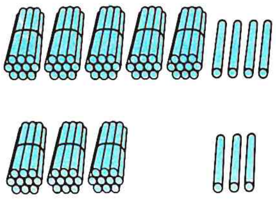
NAME ______________________________



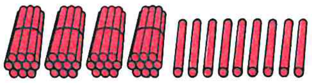
$$\begin{array}{r} 41 \\ +\ 56 \\ \hline \end{array}$$



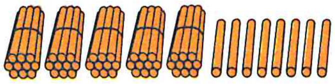
$$\begin{array}{r} 32 \\ +\ 37 \\ \hline \end{array}$$



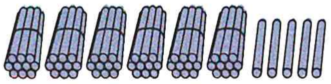
$$\begin{array}{r} 54 \\ +\ 33 \\ \hline \end{array}$$



$$\begin{array}{r} 49 \\ -\ 36 \\ \hline \end{array}$$



$$\begin{array}{r} 58 \\ -\ 11 \\ \hline \end{array}$$



$$\begin{array}{r} 65 \\ -\ 52 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 37 & 65 & 46 & 81 & 32 & 17 \\ +62 & +14 & +43 & +17 & +56 & +81 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 89 & 98 & 79 & 78 & 97 & 89 \\ -31 & -54 & -67 & -17 & -23 & -23 \\ \hline \end{array}$$

NAME ______________________________

$7 + \boxed{} = 9 \qquad 9 - \boxed{} = 7$

$6 + \boxed{} = 10 \qquad 10 - \boxed{} = 6$

$5 + 5 = \boxed{} \qquad \boxed{} - 5 = 5$

$\boxed{} - 5 = 4 \qquad 4 + 5 = \boxed{}$

$$\begin{array}{r}4\\4\\\underline{1}\end{array}\qquad\begin{array}{r}3\\6\\\underline{1}\end{array}\qquad\begin{array}{r}2\\5\\\underline{1}\end{array}\qquad\begin{array}{r}5\\3\\\underline{2}\end{array}\qquad\begin{array}{r}6\\1\\\underline{3}\end{array}\qquad\begin{array}{r}4\\5\\\underline{1}\end{array}\qquad\begin{array}{r}7\\1\\\underline{1}\end{array}$$

$$\begin{array}{r}51\\\underline{+28}\end{array}\qquad\begin{array}{r}98\\\underline{-57}\end{array}\qquad\begin{array}{r}98\\\underline{-14}\end{array}\qquad\begin{array}{r}51\\\underline{+47}\end{array}\qquad\begin{array}{r}79\\\underline{-18}\end{array}\qquad\begin{array}{r}98\\\underline{-31}\end{array}\qquad\begin{array}{r}42\\\underline{+37}\end{array}$$

$$\begin{array}{r}10\\\underline{-1}\end{array}\qquad\begin{array}{r}10\\\underline{-5}\end{array}\qquad\begin{array}{r}2\\\underline{+8}\end{array}\qquad\begin{array}{r}10\\\underline{-4}\end{array}\qquad\begin{array}{r}10\\\underline{-7}\end{array}\qquad\begin{array}{r}1\\\underline{+9}\end{array}\qquad\begin{array}{r}10\\\underline{-3}\end{array}$$

$10 - 2 = \boxed{} \qquad 3 + 7 = \boxed{} \qquad 9 - 2 = \boxed{}$

$10 - 6 = \boxed{} \qquad 4 + 6 = \boxed{} \qquad 10 - \boxed{} = 2$

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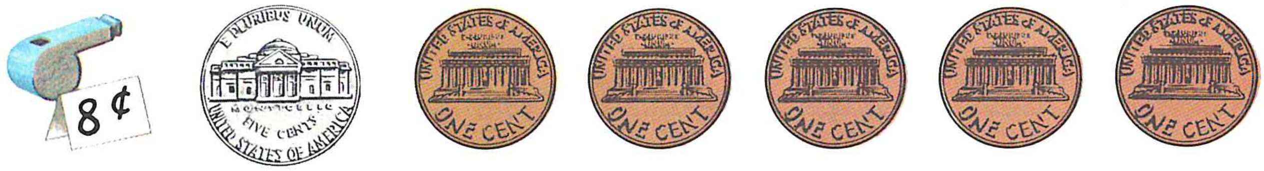

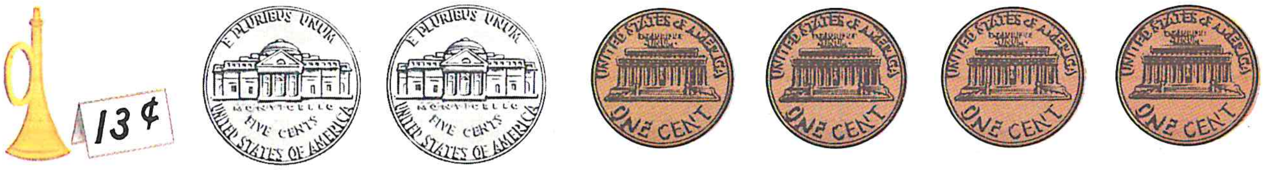

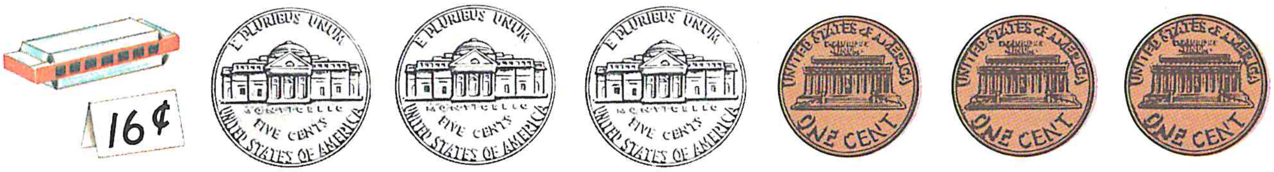

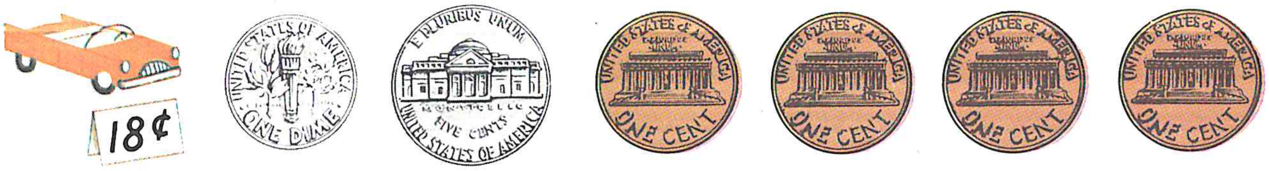

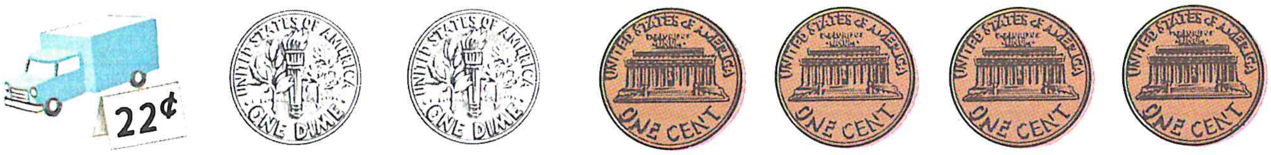

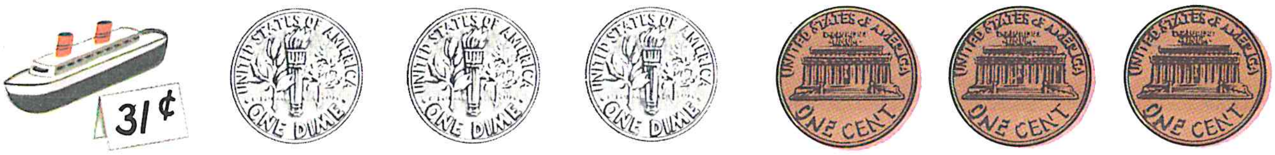

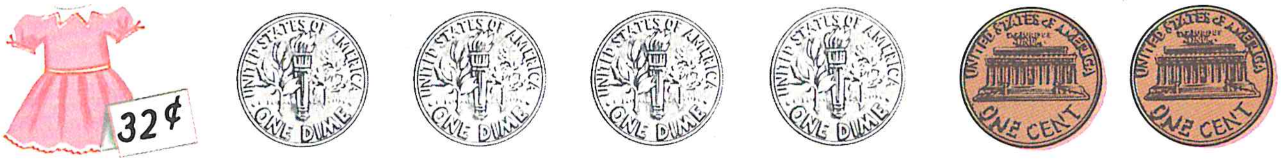

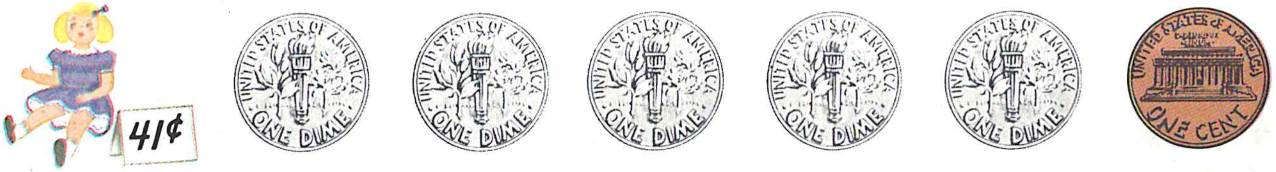

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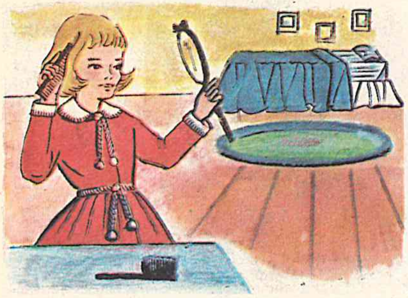

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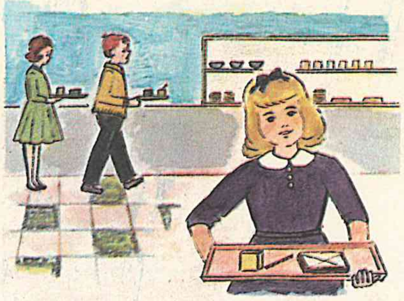

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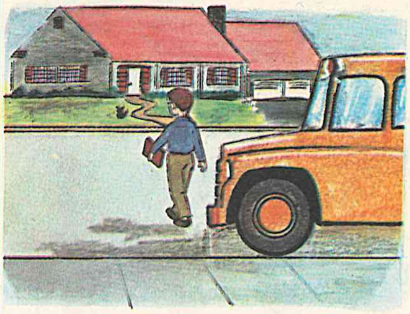

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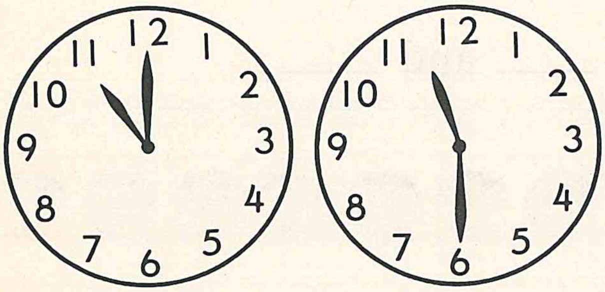

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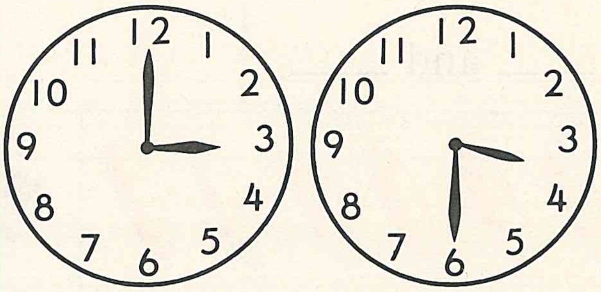

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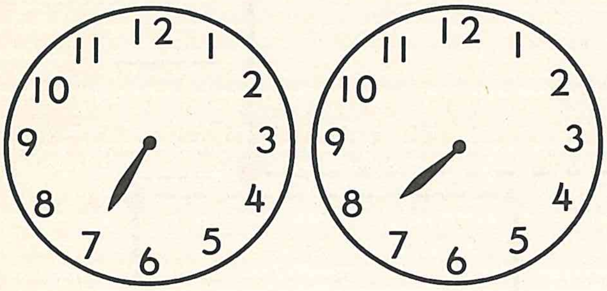

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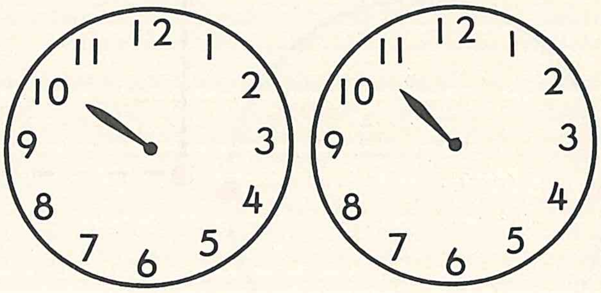

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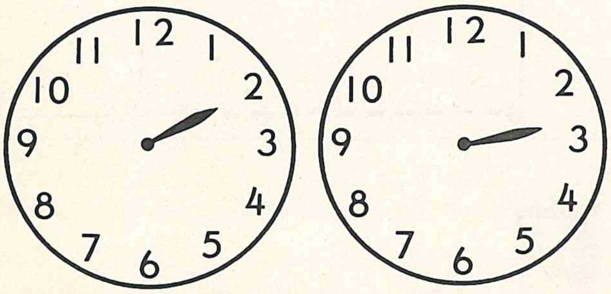

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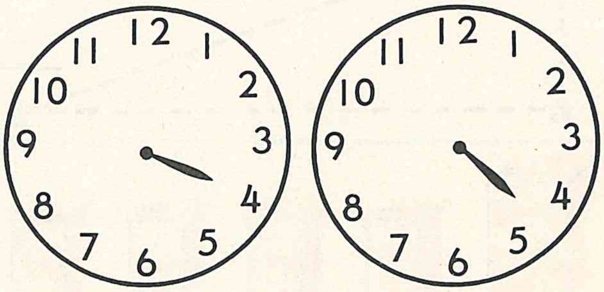

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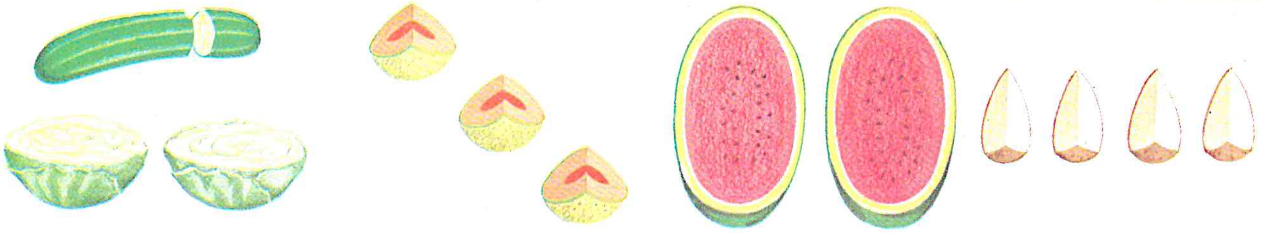

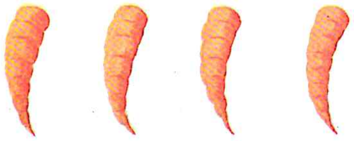

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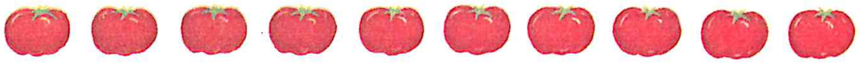

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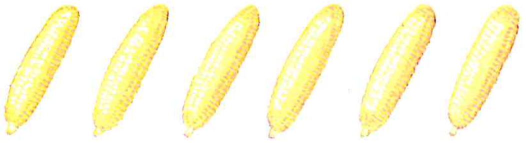

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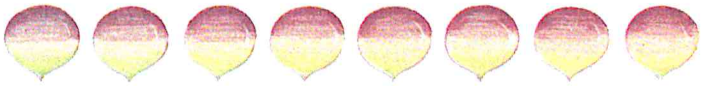

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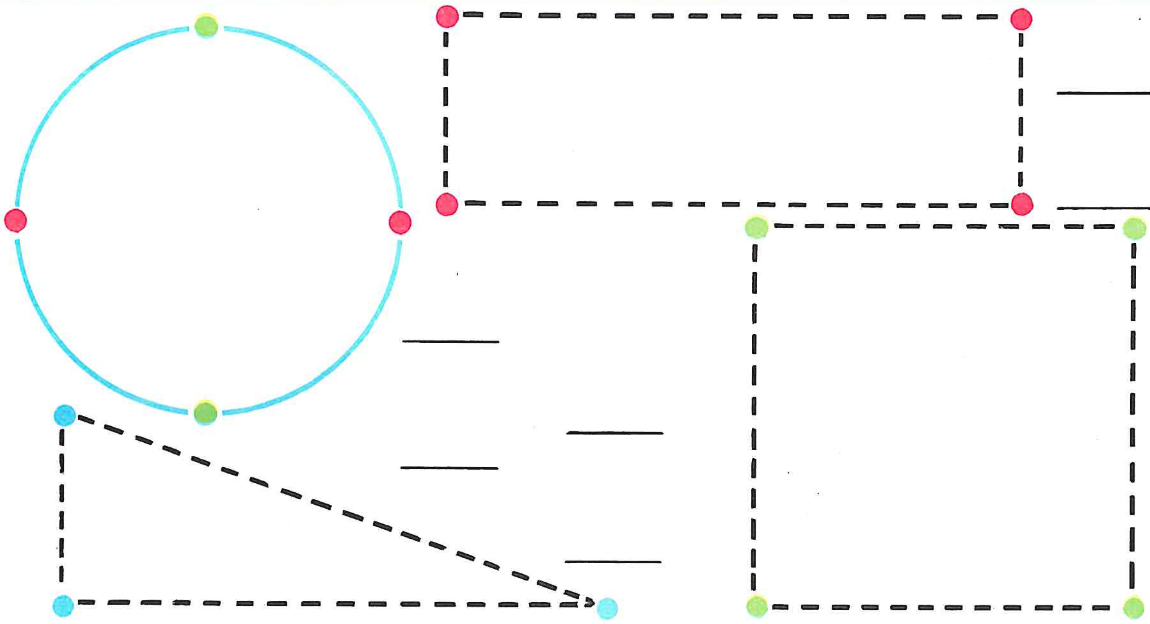

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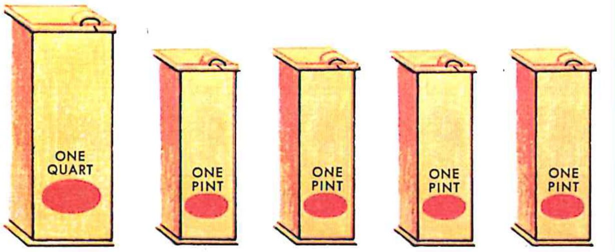
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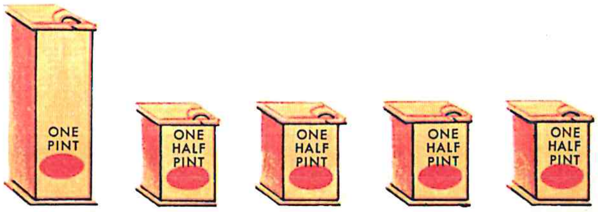
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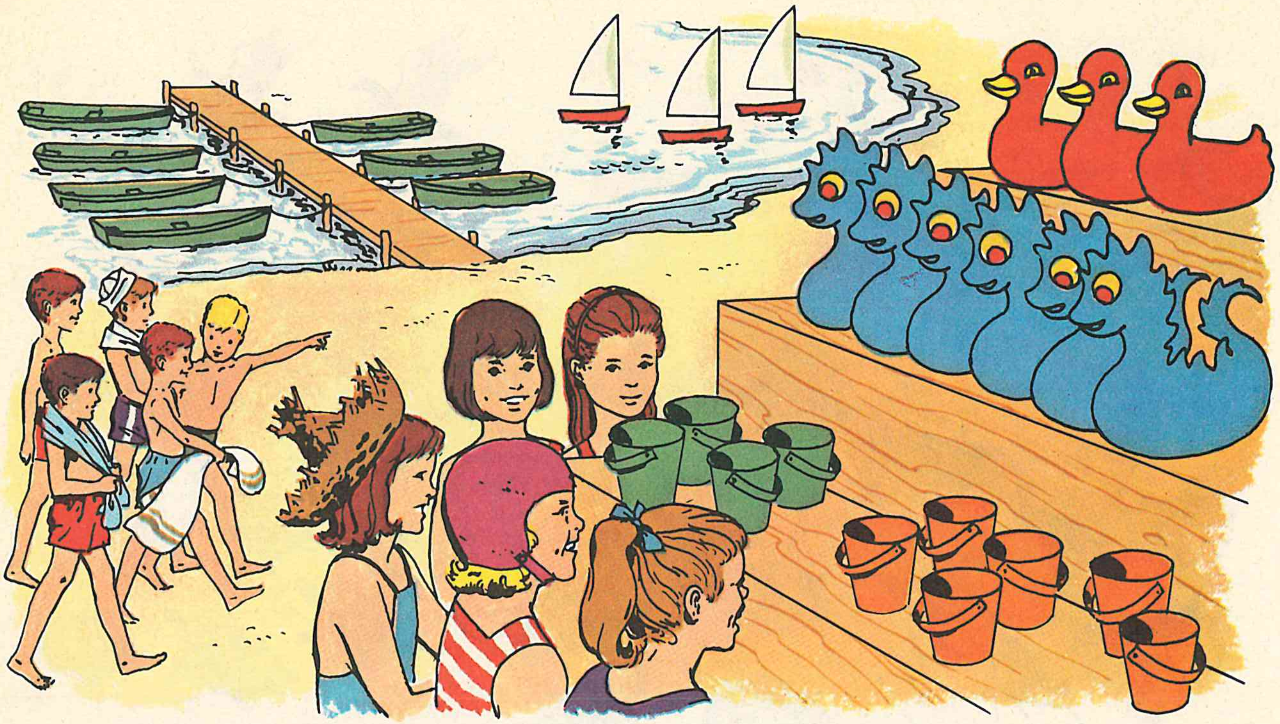

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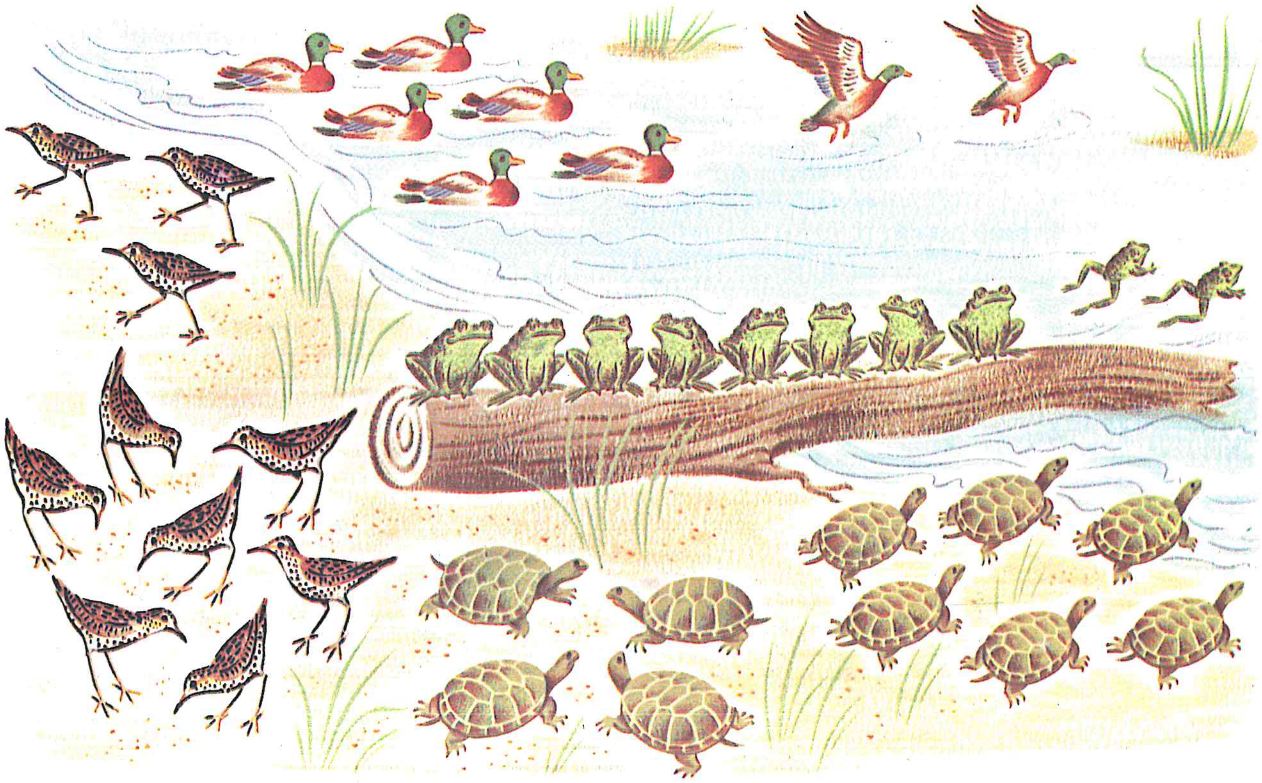
5	1	4	5	7	2	4
3	1	2	4	1	5	2

64	71	63	63	32	42
+12	+14	+32	+23	+13	+37

52	51	52	41	43	51
+16	+47	+34	+58	+16	+26

NAME ____



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$\begin{array}{r} 78 \\ -27 \\ \hline \end{array}$ $\begin{array}{r} 87 \\ -56 \\ \hline \end{array}$ $\begin{array}{r} 97 \\ -31 \\ \hline \end{array}$ $\begin{array}{r} 65 \\ -41 \\ \hline \end{array}$ $\begin{array}{r} 78 \\ -41 \\ \hline \end{array}$ $\begin{array}{r} 98 \\ -84 \\ \hline \end{array}$

$\begin{array}{r} 96 \\ -72 \\ \hline \end{array}$ $\begin{array}{r} 78 \\ -36 \\ \hline \end{array}$ $\begin{array}{r} 96 \\ -45 \\ \hline \end{array}$ $\begin{array}{r} 56 \\ -21 \\ \hline \end{array}$ $\begin{array}{r} 89 \\ -31 \\ \hline \end{array}$ $\begin{array}{r} 97 \\ -65 \\ \hline \end{array}$

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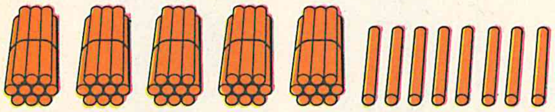
	82					87			
		93			96				100



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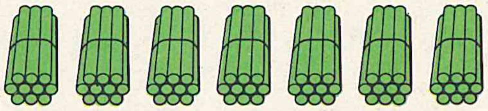

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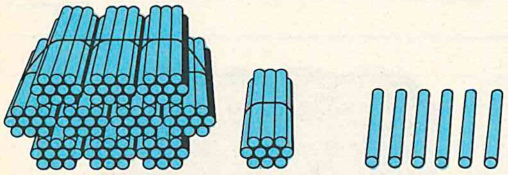

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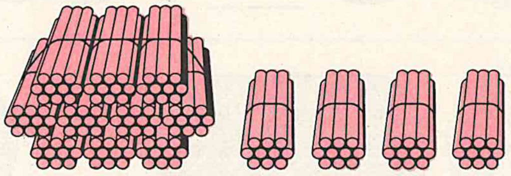

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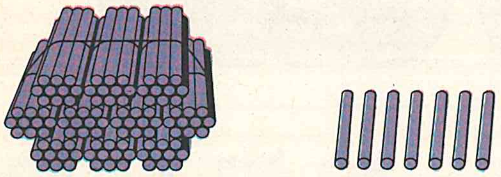

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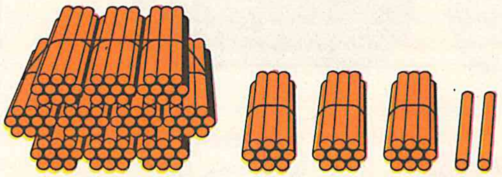

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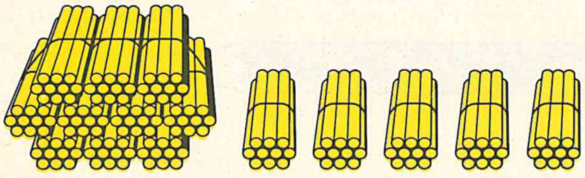

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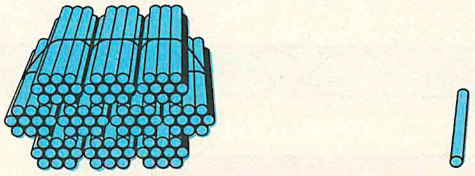

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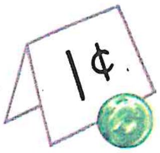
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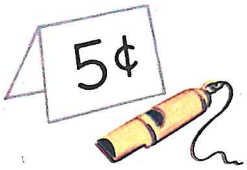
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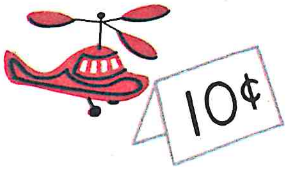
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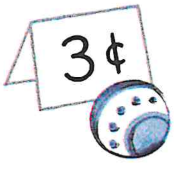
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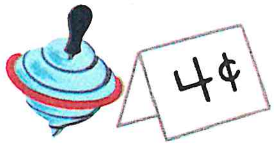
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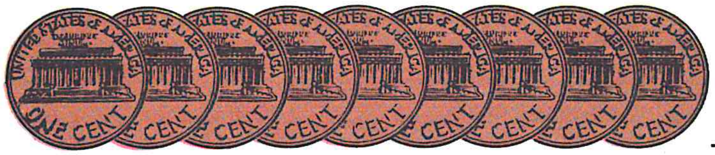
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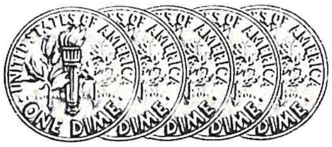
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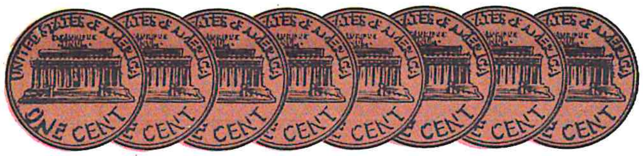
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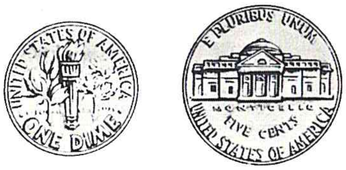
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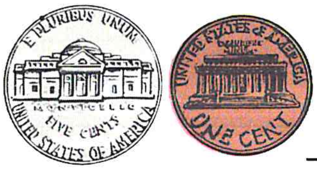
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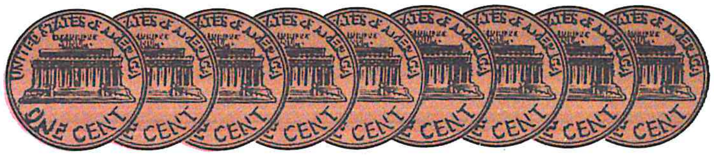
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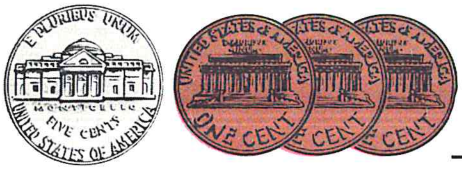
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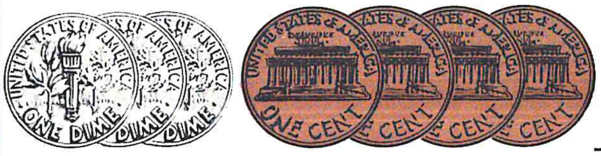
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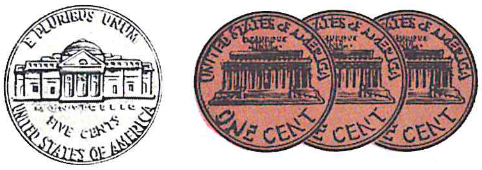
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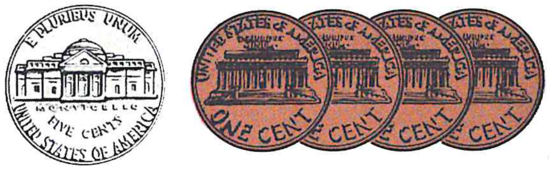
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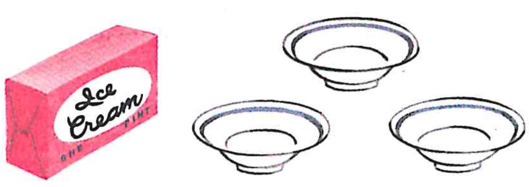
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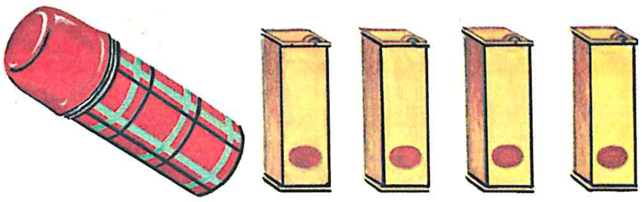

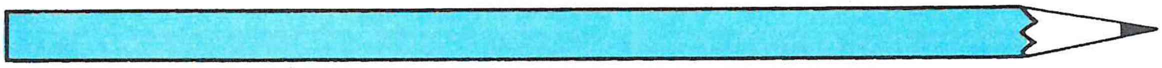

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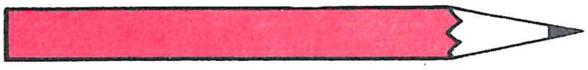

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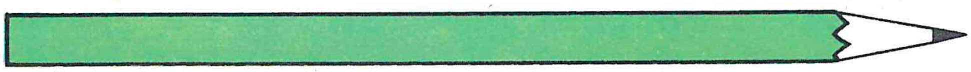

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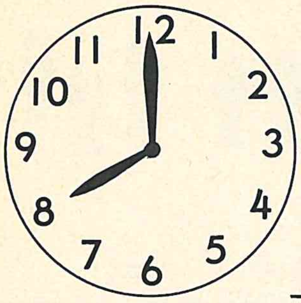
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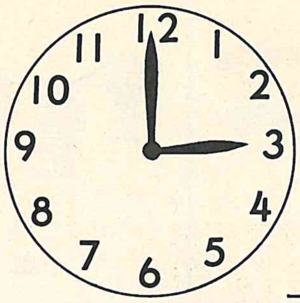
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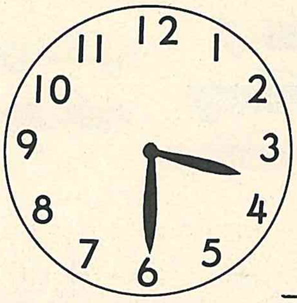
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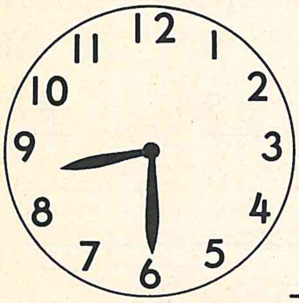
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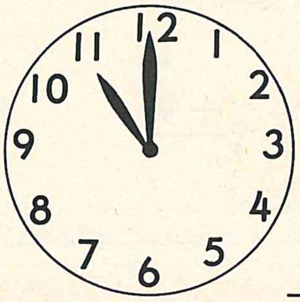
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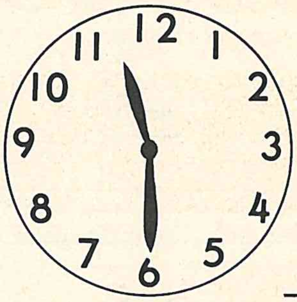
12
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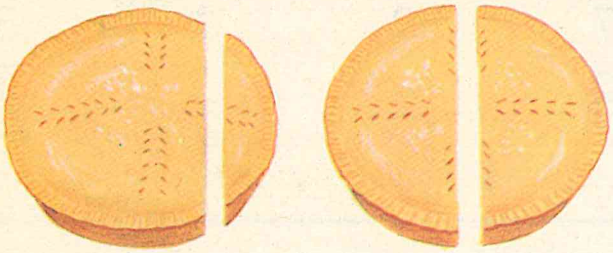

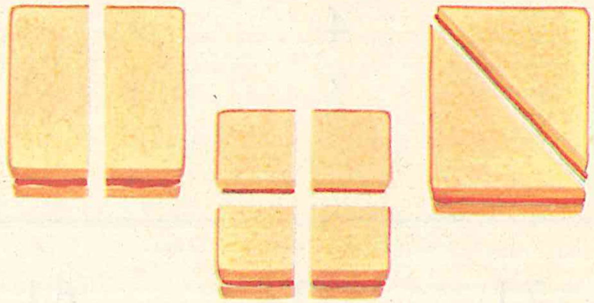

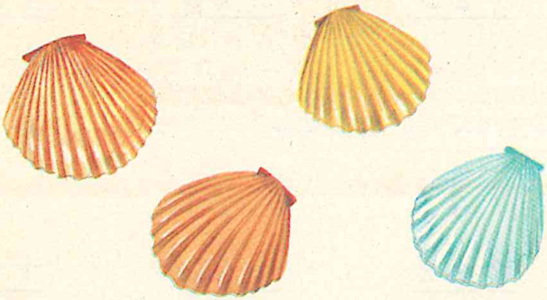

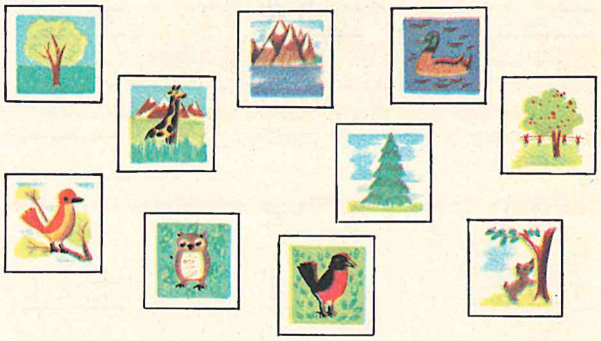

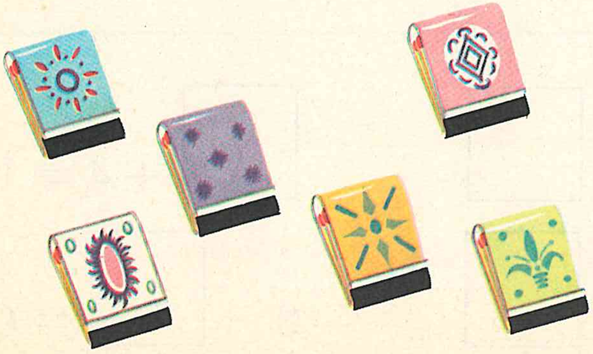

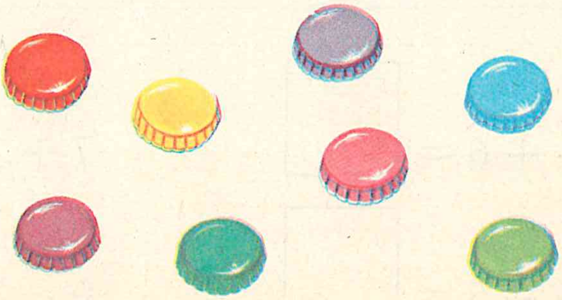

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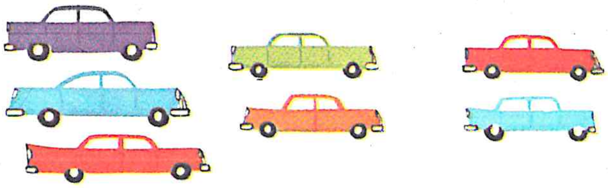
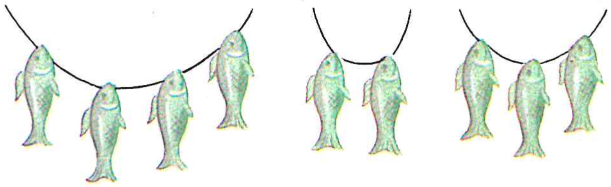


____ + ____ + ____ = ____



____ + ____ + ____ = ____

$$\begin{array}{rrrrrrr} 3 & 2 & 6 & 1 & 2 & 5 & 2 \\ +7 & +5 & +3 & +9 & +6 & +5 & +8 \\ \hline \end{array}$$

$$\begin{array}{rrrrrrr} 2 & 3 & 3 & 1 & 4 & 6 & 5 \\ 2 & 4 & 6 & 7 & 2 & 1 & 3 \\ 6 & 3 & 1 & 2 & 4 & 1 & 1 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 71 & 31 & 61 & 53 & 21 & 43 \\ +21 & +54 & +23 & +23 & +78 & +51 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 41 & 24 & 52 & 43 & 21 & 51 \\ +32 & +31 & +11 & +42 & +46 & +45 \\ \hline \end{array}$$

$1 + 6 = \square$

$7 + 2 = \square$

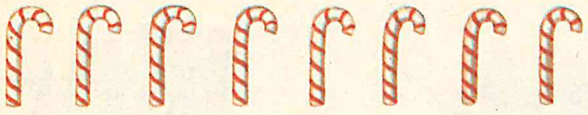
$\square + 4 = 10$

$9 - 5 = \square$

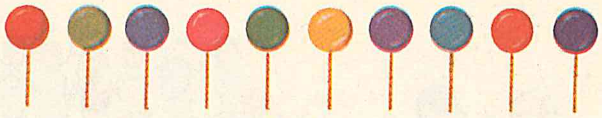
$10 - 7 = \square$

$8 - \square = 6$

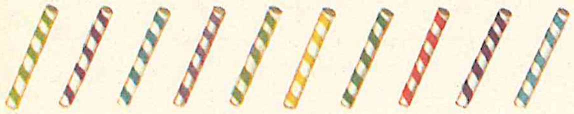
NAME ______________________________



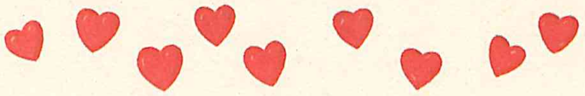
___ − 6 = ___



___ − 4 = ___



___ − 7 = ___



___ − 5 = ___

10	10	8	10	9	10	10
−6	−1	−3	−5	−3	−4	−8

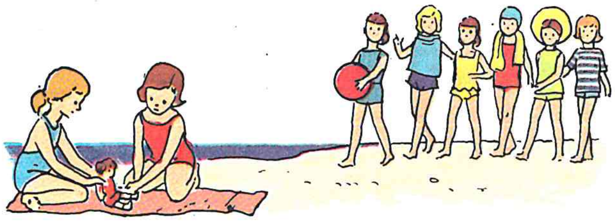
8	10	7	10	10	10	9
−7	−3	−2	−9	−2	−7	−1

87	79	93	94	79	85
−14	−67	−82	−42	−52	−24

63	87	85	64	98	65
−31	−51	−41	−23	−76	−12

69	67	72	98	84	75
−56	−46	−31	−57	−51	−13

NAME ____________________



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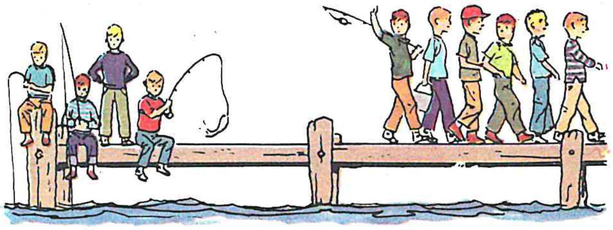

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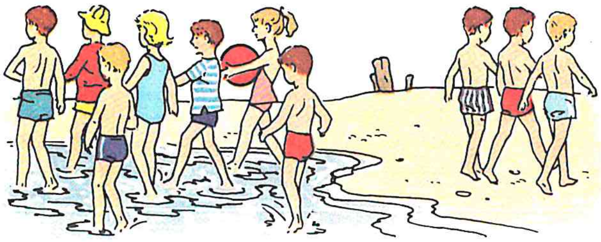

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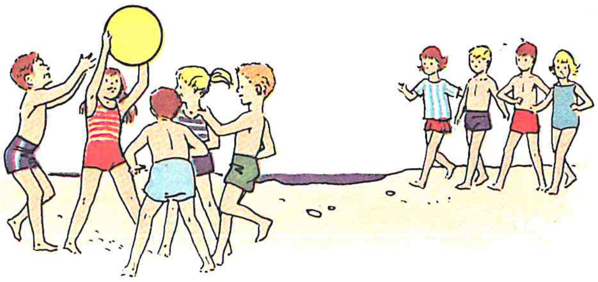

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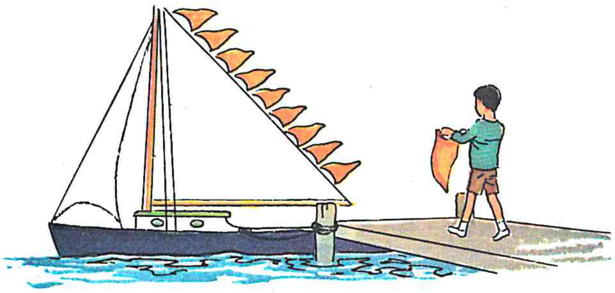

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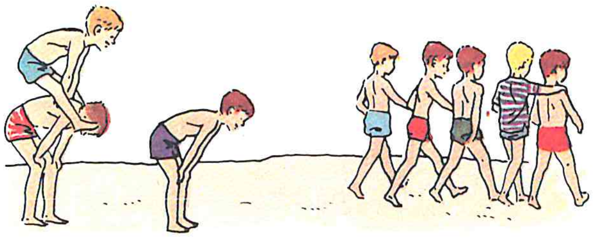

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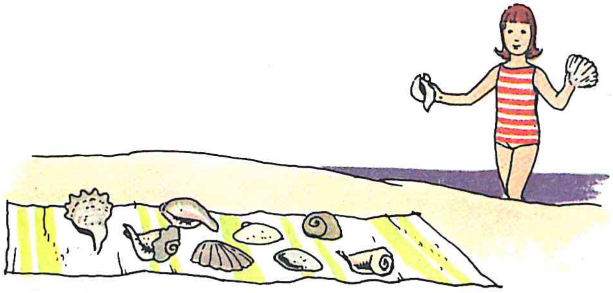

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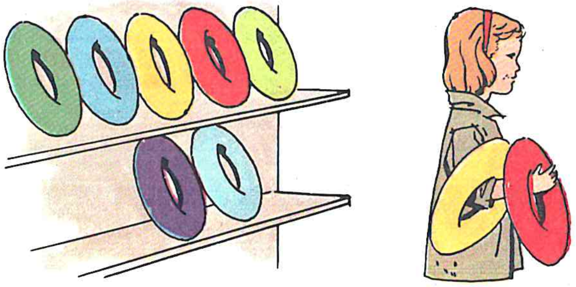

____ ____ = ____

THE GRADE ONE LEARNING PROGRAM

To the parents. Many of you ask: What is modern arithmetic? Is it something new in mathematics or just an accelerated program? How can it help my child more than a traditional program?

As long as people think, there will be new discoveries and new developments in the field of mathematics. This program of modern arithmetic reflects new points of view and new emphases. It prepares the child to apply the arithmetic he learns to the world about him.

The spirit of the program is one of inquiry, one of discovery. Pupils learn best what they discover for themselves. And they discover by inquiring, by experimenting. Here the teacher plays a most important role—preparing the child for the learning experience, stimulating him to make inquiries, channeling his efforts, and aiding him to draw conclusions from his discoveries. He is led to discover *why* we do certain things in mathematics, not just *how* we do them.

For most pupils, the greater insight gained from discovery and from emphasis of basic principles is a steady guide to continued progress in mathematics. No longer must the average or slow learner be enmeshed in meaningless rules and manipulations with figures. For the pupil gifted with mathematical insight, the program opens new vistas to explore. Under such a program, there is greater achievement by all pupils.

The tools of modern arithmetic are designed to help convey ideas of arithmetic. The language is more precise; only words that are correct in a mathematical sense are used. A number line is a graphic aid that helps the pupil understand the sequence of numbers and operations with numbers. The concept of sets moves smoothly from the known "set of blocks" to the abstract "set of numbers." Number sentences are a simple algebraic way in which the child can express addition facts and subtraction facts that he has learned; number sentences also provide a meaningful summary of problem situations and are a key to effective problem solving. Patterns in arithmetic recognized by the pupil aid his understanding and help him discover new facts at a higher level of achievement. All these tools give the child some appreciation, even though elementary, of the basic structure of mathematics.

There are, in mathematics, a few key principles on which most of the development of arithmetic can be built. These are the building blocks, the foundation of future mathematics study. These are the tools for learning that we are putting in the hands of your child, teaching him his first use of them, guiding him to discover for himself their many uses, preparing him for the mathematics of the later grades and of life.

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GRAY

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